### Aon Risk Solutions Global Risk Consulting Actuarial and Analytics

# Pennsylvania Insurance Department – Bureau of Special Funds

Actuarial Analysis for the Underground Storage Tank Indemnification Fund and the Tank Installers Indemnification Program

As of June 30, 2013

Issue Date - December 3, 2013

555 East Lancaster Avenue Suite 300 Radnor, PA 19087-5159 tel: 610.834.2100 • fax: 610.834.2176 • www.aon.com





# **Table of Contents**

I.	Introduction	1
	Purpose	1
	Background	1
	Scope	1
II.	Conditions and Limitations	3
	Inherent Uncertainty	3
	Extraordinary Future Emergence	3
	Data Reliance	3
	Discounting	3
	Use and Distribution	3
III.	Executive Summary	4
	Summary of Results	4
	Observations/Findings	9
IV.	Program Description	12
V.	Data	13
VI.	Actuarial Analysis	15
	Overview	15
	Methods/Models of Estimating Unpaid Loss and ALAE Expense	15
	Cash Flow and Actuarial Assumptions	16
VII.	Description of Exhibits	19
	Description of Exhibits - USTIF	19
	Description of Pro Forma Exhibits - USTIF	22
	Description of Appendix Exhibits - TIIP	24
VIII	Exhibits	26



### I. Introduction

### Purpose

Aon Global Risk Consulting (AGRC) has been retained by the Pennsylvania Department of General Services (PA DGS) on behalf of the Pennsylvania Insurance Department, Bureau of Special Funds (PA BSF) to provide an actuarial review of the Underground Storage Tank Indemnification Fund (USTIF) and the Tank Installers' Indemnification Program (TIIP) as of June 30, 2013.

The estimated liabilities and projections included in this report are intended to be used to support the management of the USTIF and TIIP. These estimates are based on data valued as of June 30, 2013.

# Background

The Underground Storage Tank Indemnification Fund began operation in February 1994 with the purpose of helping underground storage tank owners and operators comply with financial responsibility requirements established by the Federal Environmental Protection Agency (EPA) in the event of a regulated substance release from an eligible underground storage tank (UST). The USTIF also manages the Tank Installers' Indemnification Program which provides coverage to tank installers.

The USTIF is funded by the payment of capacity and throughput fees on regulated substances by tank owners and operators. The USTIF also receives revenue income from investments and other items. The TIIP is funded by the payment of annual certified company fees and tank installer activity fees by certified tank installer companies.

The USTIF issued a \$100mln loan to the Commonwealth of Pennsylvania on October 15, 2002 (General Fund Loan). The outstanding principal on the loan is \$67.5mln as of June 30, 2013.

# Scope

The specific scope of our analysis is to provide the following:

- a. Estimate the unpaid loss and allocated loss adjustment expense (ALAE) as of June 30, 2013 for USTIF. The estimates will be provided on a net basis with respect to USTIF's limits and deductibles. Estimates will be provided on both a discounted and undiscounted basis. The interest rates used for discounting the unpaid losses was provided by PA BSF. A review of the appropriateness of the discount rate is outside of scope for this review.
- b. Evaluate the financial status of the USTIF as of June 30, 2013.
- c. Recommend fees for USTIF based on the Underground Storage Tank Indemnification Board (Board) requirements.



- d. Prepare a cash flow report for USTIF that projects payments and investment income through the twenty year period beginning July 1, 2013. The sensitivity of the results to the underlying interest rate assumption will also be tested. Pro forma balance sheets and income statements will be prepared for this period.
- e. Project the annual TIIP underwriting income for the ten year period beginning July 1, 2013.

\* \* \* \* \* \*

We, Charles B. Kullmann and Jay Matthew South are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

This report was prepared with the assistance of Peipei Zhou from Financial Integrity Resources Management, LLC in accordance with our Small Disadvantaged Business proposal submitted to the PA DGS.

We performed this analysis using generally accepted actuarial principles and in accordance with all relevant Actuarial Standards of Practice.

Please contact us if you have any questions regarding this report.

Respectfully submitted,

Aon Global Risk Consulting

Charles B. Kullmann, PhD, FCAS, MAAA Associate Director & Actuary

ela Kull

+1.610.834.2215

Charles.Kullmann@aon.com

Jay Matthew South, FCAS, MAAA Associate Director & Actuary

/ my Matthe South

+1.610.834.2291

Matthew.South@aon.com



### II. Conditions and Limitations

# **Inherent Uncertainty**

Actuarial calculations produce estimates of inherently uncertain future contingent events. We believe that the estimates provided represent reasonable provisions based on the appropriate application of actuarial techniques to the available data. However, there is no guarantee that actual future payments will not differ from estimates included herein.

# Extraordinary Future Emergence

Our projections make no provision for the extraordinary future emergence of losses or types of losses not sufficiently represented in the historical data or which are not yet quantifiable.

#### Data Reliance

In conducting this analysis, we relied upon the provided data without audit or independent verification; however, we reviewed it for reasonableness and consistency. Any inaccuracies in quantitative data or qualitative representations could have a significant effect on the results of our review and analysis.

# Discounting

The uncertainty inherent in the discounted unpaid loss estimates is greater than the uncertainty in the undiscounted loss estimates. This is because undiscounted liabilities normally contemplate an implicit risk margin for the variability in the loss estimation process (e.g., underor over-estimating). Discounting takes away this implicit risk margin and would subject the unpaid loss estimates to additional risks such as yields on the investment portfolio and the timing risk. Future loss payments could occur more or less rapidly than expected due to random variations and the timing of large claim payments. We made no adjustment to account for these risk margins. The interest rates used for discounting the unpaid losses was provided by PA BSF. A review of the appropriateness of the discount rate is outside of scope for this review.

### **Use and Distribution**

Use of this report is limited to PA BSF for the specific purpose described in the Introduction section. Other uses are prohibited without an executed release with Aon.

Distribution by PA BSF is unrestricted. We recognize that this report may be distributed to third parties. We request that Aon be notified of further distribution of this report. The report should only be distributed in its entirety including all supporting exhibits.



# III. Executive Summary

# Summary of Results

#### I. Estimated Outstanding Loss and ALAE for USTIF as of June 30, 2013

The following table summarizes the estimated outstanding loss and ALAE for USTIF as of June 30, 2013. Please see the Observation/Findings section of this report for more details.

Est	imated Unpaid Los	s and ALAE at 6/30/20	13
(1)	(2)	(3)	(4)
Report Year Beginning 1/1:	Estimated Ultimate Loss and ALAE	Paid Loss and ALAE	Estimated Total Outstanding as of 6/30/2013
1994	\$18,450,000	\$16,960,856	\$1,489,144
1995	\$51,578,019	\$45,385,634	\$6,192,385
1996	\$65,963,517	\$56,070,870	\$9,892,647
1997	\$81,986,640	\$70,964,001	\$11,022,639
1998	\$116,859,688	\$99,267,204	\$17,592,484
1999	\$139,257,414	\$114,222,172	\$25,035,242
2000	\$84,670,010	\$67,561,969	\$17,108,041
2001	\$98,591,921	\$75,362,419	\$23,229,502
2002	\$81,073,964	\$59,247,608	\$21,826,356
2003	\$52,600,000	\$36,433,179	\$16,166,821
2004	\$73,840,937	\$48,387,478	\$25,453,459
2005	\$54,571,873	\$34,044,114	\$20,527,759
2006	\$42,447,334	\$24,117,224	\$18,330,110
2007	\$49,037,579	\$25,579,250	\$23,458,329
2008	\$47,000,000	\$21,278,261	\$25,721,739
2009	\$46,000,000	\$16,792,828	\$29,207,172
2010	\$43,000,000	\$13,085,279	\$29,914,721
2011	\$49,400,000	\$8,574,608	\$40,825,392
2012	\$49,004,147	\$2,846,016	\$46,158,131
1/1 - 6/30/2012	\$25,508,814	\$74,933	\$25,433,881
Total	1,270,841,858	836,255,903	434,585,955

#### II. Financial Position for USTIF as of June 30, 2013

The following table presents USTIF's estimated financial position as of June 30, 2013. The results are based on our ultimate loss and ALAE projections and the financial statement



information and projections provided by USTIF. Please see the Cash Flow and Actuarial Assumptions section of this report for more details.

Financial Position at 6/30/2013										
(1)	(2)	(3)								
Assets	Undiscounted	Discounted at 4%								
Cash and Invested Assets	\$163,845,231	\$163,845,231								
DCED Loan Receivable	-	-								
General Fund Loan Receivable	67,500,000	67,500,000								
Interest receivable on GF Loan	14,113,452	14,113,452								
Total Assets	245,458,683	245,458,683								
Liabilities										
Outstanding Loss and ALAE	434,585,955	345,720,076								
Other Liabilities	6,853,134	6,853,134								
Total Liabilities	441,439,089	352,573,210								
Surplus / (Deficit)	(195,980,406)	(107,114,527)								

The discounted financial position only discounts the outstanding loss and ALAE expense. The interest rate of 4% used for discounting was provided by PA BSF. The discounting assumes that there are sufficient assets available which have suitably scheduled maturities and/or adequate liquidity to meet the assumed cash flow and investment requirements, which is not the case based on the current projections as the discounted position corresponds to a deficit.

We have been asked to evaluate the sensitivity of the results to the interest rate used for discounting. The total Surplus / (Deficit) based on interest rates of 3.5% and 4.5% are as follows:

	Discounted at 3.5%	Discounted at 4.0%	Discounted at 4.5%
Surplus / (Deficit)	(116,321,436)	(107,114,527)	(98,347,641)



#### III. Recommendations Regarding USTIF Fees

On September 29, 2003 the Board established a fee setting objective that requires having positive Cash and Invested Assets for a projection period of at least five years. The following table presents the ten year cash flow projections under the current fee structure. The projections assume that the GF Loan will be renegotiated in 2014 and that future payments will consist of \$5.7mln per year beginning in fiscal year 2014/15. This GF Loan repayment scenario was provided by USTIF. Under these assumptions, the final GF Loan payment is expected to occur in fiscal year 2028/29. Our model predicts that the five year requirement for positive Cash and Invested Assets will be met under the current fee structure (Capacity / Throughput fees of \$.0825 / \$.011). In other words, no fee increases are necessary under the assumptions underlying this analysis and the Board's requirement that positive cash and invested assets be maintained over a five year time horizon. However, the deficit is expected to grow during this period.

				Cash Flow	Table 1				
		Fee Stru	cture: 0.0	)% Increase	e in Fees I	Effective 1	/1/2014		
All Values in \$000's									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Fiscal Year Beginning	Initial Cash & Invested Assets	Fee Revenue	Loss & ALAE Payments	Investment Income at 4% per annum	Other Cash Flows	Total Cash Flow	Ending Cash and Invested Assets	Undiscounted Year End Deficit	Discounted Year End Deficit
7/1/2013	163,845	60,600	(53,785)	6,467	(11,140)	2,142	165,987	(194,075)	(106,268)
7/1/2014	165,987	60,057	(54,113)	6,678	(4,016)	8,606	174,593	(191,431)	(104,326)
7/1/2015	174,593	59,519	(55,641)	6,945	(5,798)	5,025	179,619	(192,670)	(105,912)
7/1/2016	179,619	58,987	(58,227)	7,112	(4,388)	3,484	183,103	(194,736)	(107,932)
7/1/2017	183,103	58,460	(59,214)	7,207	(5,086)	1,368	184,471	(199,653)	(112,380)
7/1/2018	184,471	57,939	(60,580)	7,218	(5,403)	(0,827)	183,645	(207,332)	(119,164)
7/1/2019	183,645	57,422	(61,268)	7,154	(5,733)	(2,424)	181,220	(217,832)	(128,345)
7/1/2020	181,220	56,911	(61,822)	7,029	(6,077)	(3,959)	177,262	(231,325)	(140,119)
7/1/2021	177,262	56,405	(62,186)	6,846	(6,434)	(5,368)	171,893	(247,938)	(154,643)
7/1/2022	171,893	55,904	(61,684)	6,624	(6,805)	(5,961)	165,933	(267,730)	(172,034)
7/1/13 - 6/30/23	163,845	582,205	(588,520)	69,282	(60,879)	2,088	165,933	(267,730)	(172,034)

Please see the exhibit "Pro Forma 1.3 - Cash Flow" for the continuation of this projection through 6/30/2033. The Cash and Invested Assets are expected to remain positive through 6/30/2031.



We have been asked to evaluate the sensitivity of these results to the interest rate used for discounting. The total combined results for 7/1/13 - 6/30/23 based on interest rates of 3.5% and 4.5% are as follows:

		Fee St	ructure : 0	0.0% Increa	se in Fee	s Effectiv	/e 1/1/201	4						
All Values Shown in \$000's														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)					
Investment Rate	Initial Cash & Invested Assets	Fee Revenue	Loss & ALAE Payments	Investment Income	Other Cash Flows	Total Cash Flow	Ending Cash and Invested Assets	Undiscounted Year End Deficit	Discounted Year End Deficit					
3.5%	163,845	582,205	(588,520)	59,131	(60,879)	(8,063)	155,783	(277,881)	(191,989)					
4.0%	163,845	582,205	(588,520)	69,282	(60,879)	2,088	165,933	(267,730)	(172,034					
4.5%	163,845	582,205	(588,520)	79,910	(60,879)	12,716	176,561	(257,102)	(152,095					

The investment rates are applied to the cash and invested assets underlying column (5) of the table and to discount the unpaid loss and ALAE amounts underlying column (10) of the table. Although we have varied the investment rate, the GF Loan interest rate remains unchanged at 0.5% per annum.



#### IV. Alternative Fee Structures

As shown in the above cash flow projections, the deficit is expected to grow under the current fee structure. In order to ensure that the deficit does not grow over the ten year time horizon, the fees would have to be increased by approximately 10.7%. The cash flow projections under the revised fee structure (\$.0913 / \$.0122) are presented in the following table.

				Cash Flow	Table 2									
	Fee Stru	cture: 10	0.7% Increa	ase in Fees	Effective	1/1/2014	(\$.0913 /	\$.0122)						
All Values Shown in \$000's														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)					
Fiscal Year Beginning	Initial Cash & Invested Assets	Fee Revenue	Loss & ALAE Payments	Investment Income at 4% per annum	Other Cash Flows	Total Cash Flow	Ending Cash and Invested Assets	Undiscounted Year End Deficit	Discounted Year End Deficit					
7/1/2013	163,845	63,840	(53,785)	6,532	(11,140)	5,446	169,292	(190,771)	(102,964)					
7/1/2014	169,292	66,478	(54,113)	6,939	(4,016)	15,288	184,580	(181,445)	(94,339)					
7/1/2015	184,580	65,883	(55,641)	7,472	(5,798)	11,916	196,496	(175,792)	(89,034)					
7/1/2016	196,496	65,294	(58,227)	7,913	(4,388)	10,592	207,088	(170,751)	(83,947)					
7/1/2017	207,088	64,711	(59,214)	8,292	(5,086)	8,703	215,791	(168,333)	(81,060)					
7/1/2018	215,791	64,134	(60,580)	8,595	(5,403)	6,745	222,537	(168,440)	(80,272)					
7/1/2019	222,537	63,562	(61,268)	8,833	(5,733)	5,394	227,930	(171,122)	(81,635)					
7/1/2020	227,930	62,996	(61,822)	9,019	(6,077)	4,116	232,047	(176,540)	(85,334)					
7/1/2021	232,047	62,436	(62,186)	9,158	(6,434)	2,975	235,021	(184,810)	(91,515)					
7/1/2022	235,021	61,881	(61,684)	9,269	(6,805)	2,661	237,683	(195,980)	(100,284)					
7/1/13 - 6/30/23	163,845	641,216	(588,520)	82,021	(60,879)	73,838	237,683	(195,980)	(100,284)					

An alternative to a one-time fee increase at 1/1/2014 would be level annual fee increases during the ten year period. The annual increase required to keep the deficit from growing is approximately 2.3%.



#### V. Projected Underwriting Income for TIIP

The projected TIIP underwriting income for the period 7/1/2013 through 6/30/2023 is presented in the following table. Based on these projections, the current fee schedule is not expected to generate sufficient revenue to cover projected losses and expenses for this 10 year period. The total fee revenue for the periods prior to 7/1/2013 is approximately \$3.6mln with total reported loss and paid ALAE expense for this period of approximately \$2.1mln. The total reported loss and paid ALAE expense has decreased by approximately \$250K since our 2012 review.

TIIP Loss and Expense Projections													
Incurred by Fiscal Year													
(1) (2) (3) (4) (5)													
Fiscal Year	Total Revenue	Estimated Total Annual Cost	Underwriting Income	Cumulative Underwriting Income									
7/1/13 - 6/30/14	280,000	302,580	(22,580)	(22,580)									
7/1/14 - 6/30/15	280,000	312,213	(32,213)	(54,793)									
7/1/15 - 6/30/16	280,000	322,158	(42,158)	(96,951)									
7/1/16 - 6/30/17	280,000	332,424	(52,424)	(149,374)									
7/1/17 - 6/30/18	280,000	343,021	(63,021)	(212,396)									
7/1/18 - 6/30/19	280,000	353,962	(73,962)	(286,358)									
7/1/19 - 6/30/20	280,000	365,257	(85,257)	(371,615)									
7/1/20 - 6/30/21	280,000	376,918	(96,918)	(468,534)									
7/1/21 - 6/30/22	280,000	388,957	(108,957)	(577,491)									
7/1/22 - 6/30/23	280,000	401,387	(121,387)	(698,878)									
Total	2,800,000	3,498,878	(698,878)										

# Observations/Findings

The management of USTIF has initiated a number of cost containment initiatives and case reserving changes since 2003.

 An "early closing program" began in 2004 in which the PA BSF began working with the PA Department of Environmental Protection (DEP) to identify "stalled" sites and then putting them out for competitive bidding.



- A 60 day reporting requirement was instituted in 2003 (Pa Code 977.34) which requires that claims be filed with USTIF within 60 days after confirmation of the release or coverage will be denied.
- Fixed price contracts have been aggressively pursued since 2004. The process involves
  competitive bidding for the site assessment and remediation work. In addition to cutting
  costs, the use of fixed price contracts is expected to reduce the time required for claim
  closure.
- The EPA mandated tank upgrade (1998) and more frequent inspections by the DEP have served to reduce claim frequency. The mandated tank upgrade requires tank owners and operators to protect their tanks from corrosion and install spill-and-overflow prevention equipment. The owners and operators were given approximately ten years to comply with this requirement.
- USTIF modified its reserving philosophy in 2003. The current approach is to set-up a
  preliminary reserve of \$125K until claim eligibility is determined. Once eligibility is
  confirmed, the preliminary reserve is increased to \$175K. A more refined case reserve is
  then set within a year based on the specific circumstances of the claim.
- USTIF recently began tracking and reserving for long-term monitoring expenses
  associated with claims having an environmental covenant. These types of claims have
  Post Remedial Care Plans (PRCP) that could require site monitoring to be performed for
  a period of up to approximately 25 years. The case reserves for these expenses are set
  based on the frequency of monitoring events and the expected cost per event.

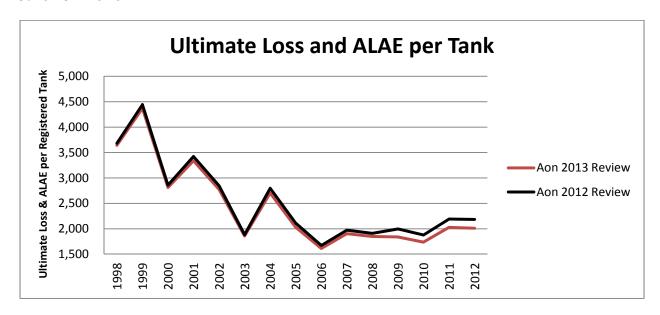
We have observed the following in our review of the data:

- Claim frequency has declined significantly since 1999. Although there is year-to-year variability, the frequency rate appears to have leveled off beginning approximately 2007/08. The number of filed claims during 2010 was especially low, whereas the last few years have filing rates more in line with 2007/08.
- There is evidence that claims are being closed more quickly and more recent periods have a higher percentage of paid loss to incurred loss compared to prior periods at the same age.
- The average expense cost per claim has been increasing. The PA BSF expects the increase in expense cost to lead to a reduction in indemnity costs (e.g., impact of fixed price contracts and early closing programs). There is evidence that the indemnity cost levels have been impacted favorably. We will continue to monitor the indemnity losses as they mature and evaluate the impact.
- USTIF experienced better than expected loss experience during the last twelve months. For instance, there was approximately \$15mln less reported loss than expected for the period 2003-2012 (approximately \$6mln less paid loss and expense). The graph below



shows a comparison of the current ultimate loss and ALAE estimates to those from one year ago.

The following graph presents a comparison the ultimate loss estimates to the estimates in our June 2012 review.





# IV.Program Description

Pennsylvania's Underground Storage Tank Indemnification Fund began operation in February of 1994 with the purpose of assisting Pennsylvania tank owners in meeting their financial responsibilities due to releases of regulated substances from underground storage tanks.

The fund covers corrective action and third party liability costs on eligible claims for \$1,500,000 above a \$5,000 deductible per tank, per occurrence. Claim payments are limited to \$1,500,000 per occurrence with an aggregate limit of \$1,500,000 or \$3,000,000, depending on whether an owner or operator has less than or more than 100 USTs, respectively. Prior to 1/2002, the limit was \$1,000,000 and prior to 1/1995, the deductible was \$10,000.

The Bureau of Special Funds sustains the operation of USTIF by means of the throughput and capacity fees paid by UST owners and operators, as well as the income generated from the investment of assets. The current throughput and capacity fees are \$0.011 per gallon and \$0.0825 per gallon, respectively. For the throughput fees, each distributor must assess the fee on regulated substance deliveries to regulated USTs. The bulk of throughput fees are generated by gasoline deliveries. For the capacity fee, the owner or operator of USTs storing heating oil, diesel fuel, kerosene, and used motor oil products must pay the annual fee per gallon of tank capacity. These fees have varied over time.

The Bureau of Special Funds also operates the Tank Installers' Indemnification Program to cover the financial liabilities for all certified Pennsylvania tank installers. TIIP went into effect on January 1, 2002. The same coverage as the tank owners is provided for installers. The current TIIP fee structure consists of activity and company fees. All certified companies must pay an annual fee of \$1,000. Activity fees are \$15 for tank removals and \$50 for installations or modifications.

The actuarial analysis for USTIF is in the main section of our review. The actuarial analysis for TIIP is provided in the Appendix.



### V. Data

Our analysis was performed using historical loss and exposure information provided by USTIF and their third party claims administrator, ICF Consulting. It's our understanding that the loss data provided was net of all applicable limits and deductibles.

The data used in our analysis included the following:

#### **USTIF Data**

- Paid and incurred loss triangles valued as of 6/30/2013
- Paid ALAE expense triangles valued as of 6/30/2013
- Open, closed and reported claim count triangles valued as of 6/30/2013
- Detailed listing of fixed price contracts
- Detailed claims listing underlying the triangles and valued as of 6/30/2013
- Fee history and number of registered tanks by year
- Financial Statements as of June 30, 2013
- Investment income and growth rate assumptions
- GF Loan repayment schedules
- Expected future ICF consulting costs
- Detailed listing of claims with Post Remedial Care (PRC) requirements valued as of 6/30/2013

Note: The paid PRC costs are included in both the data triangles and detailed loss runs. The PRC case reserves are only included in the data triangles and detailed loss runs if they correspond to open claims. ICF has indicated that the Fund has agreed to keep claims open that have PRC activity more frequently than once a year. The detailed listing of PRC claims provided by ICF includes the paid and incurred values for all known claims with a PRC component.

#### **TIIP Data**

- Detailed listing of all TIIP claims valued as of 6/30/2013
- Historical fee revenue by fiscal year
- Number of installations, major modifications & tank removals/closures by year



- Projected number of certified companies for 2013/14
- Projected Unallocated Loss Adjustment Expense (ULAE) for 2013/14
- Expected growth rate assumptions for revenue and exposures



# VI. Actuarial Analysis

### Overview

This analysis applies multiple actuarial reserving methods to arrive at a range of ultimate loss or ALAE indications by policy period. A final ultimate loss or ALAE estimate is selected based on a review of the indications under the methods considering the strengths and weaknesses of each method and the circumstances surrounding the data. Specifically, we employed the following actuarial methods:

- Paid Development Method (Loss and ALAE)
- Incurred Development Method (Loss Only)
- Reported Claim Count Development Method
- Incurred Generalized Cape Cod Method (Loss Only)
- Paid Generalized Cape Cod Method (Loss and ALAE)

A brief description of each method is provided in the following paragraphs.

### Methods/Models of Estimating Unpaid Loss and ALAE Expense

#### **Development Methods**

The distinguishing characteristic of the development method is that ultimate estimates for each period are produced from recorded values assuming that future claims' development is similar to prior years' development. In this method, development triangles are used to track the development history of a specific group of claims. The underlying assumption in the development technique is that claims recorded to date will continue to develop in a similar manner in the future. That is, the development technique assumes that the relative change in a given year's claims from one evaluation point to the next is similar to the relative change in prior years' claims at similar evaluation points.

An implicit assumption in the development technique is that, for an immature policy year, the claims activity observed thus far tells you something about the claims activity yet to be observed. As a result, the development method is considered a method that is responsive to the known claims data. For instance, the paid development method tends to give a very high (or very low) estimate for an immature year with a very high (or very low) volume of payments. Other important assumptions of the development method include: consistent claim processing, a stable mix of types of claims, stable policy limits, and stable reinsurance (or excess insurance) retention limits throughout the experience period.

The development method is implemented using the following steps:



- 1. Compile the claims data in a development triangle to compare the movements in each prior period's data at equal age intervals.
- 2. Calculate Age-to-Age factors at each age for the historical periods.
- 3. Review the factors at each age and select the age factors that will apply in the future.
- 4. Select a tail factor that represents the development that will occur beyond the age horizon provided by the historical data.
- 5. Calculate the cumulative development factors ("Age-to-Ultimate" factors) by combining the incremental Age-to-Age factors.
- 6. Apply the Age-to-Ultimate factors to the claims data at the current valuation to arrive at the ultimate estimates.

#### **Generalized Cape Cod Method**

As discussed above, the development methods can be very responsive to the claims data. This may not be a desirable characteristic for immature years in which the claims data does not provide predictive value. This is particularly true for long-tailed lines of business such as environmental coverage types which are typically slow to develop. An alternative approach which is not responsive to the claims data would be to assume an a priori or predetermined ultimate outcome until the policy period's data becomes predictive. ("Expected Method").

The Generalized Cape Cod (GCC) Method can be thought of as a mixture of the Expected and Development approaches. The GCC method splits the ultimate estimate into two components: the known component and the expected unknown component. The split between the known and unknown components is determined by the development patterns identified in the development method. The inclusion of the expected unknown component adds stability to the method and the split based on the development pattern serves to add more or less stability based on the expected predictive value of the loss data.

The unknown component is estimated by combining the development method ultimate estimates from "nearby" periods after adjustments are made for differences in exposure and cost levels. For instance, the differences could be due to inflation, coverage changes or other environmental factors. When the GCC method is implemented, the weight given to nearby periods in the calculation of the unknown component is controlled by the value assigned to the Cape Cod decay factor. The differences in exposure and cost levels are controlled through the use of an exposure proxy and trend index.

# Cash Flow and Actuarial Assumptions

The main assumptions of our USTIF cash flow and actuarial analyses follow; please see the Description of Appendix Exhibits section for details on the TIIP analysis.



- The future throughput revenue is difficult to project given the recent fluctuations in the price of oil, which along with the overall state of the economy affects the consumption of petroleum products. Our assumptions are based on the Energy Information Administration's (EIA) review of the Middle Atlantic projected motor gasoline consumption growth rate. The EIA provides an annual energy outlook which projects the consumption growth rate under a number of scenarios. Based on a review of the results, we have selected a long-term negative growth rate of 1.0%. The 2013/14 throughput revenue is expected to be \$54.3mln based on a review of the historical information and discussions with USTIF.
- The future number of registered tanks is expected to grow at a rate of 0% based on discussions with USTIF. As a result, the capacity fee growth rate is also assumed to be 0% in the absence of fee increases. The 2013/14 capacity fee revenue is expected to be \$6.3mln based on a review of the historical information and discussions with USTIF.
- The return on cash and invested assets is assumed to be 4% based on discussions with USTIF. We have also evaluated the sensitivity of the results to an increase or decrease in this rate of 0.5%.
- The Department of Community and Economic Development (DCED) loan balance is now \$0
- There is uncertainty regarding the principal repayment plan for the General Fund loan. The current expectation is that the GF loan will be renegotiated in 2014 and that future payments will begin to be made during fiscal year 2014/15. Our model assumes \$5.7mln will be paid per year beginning in 2014. The terms of this possible repayment scenario were provided by USTIF. The interest rate applied to the outstanding loan balance and the interest receivable is assumed to be 0.5%. This rate is tied to a Treasury Fund and was provided by PA BSF.
- The expense trend rate applicable to both claims administration and other expenses is assumed to be 4% based on discussions with USTIF. The other expense cost expectations for 2013/14 were selected based on a review of the financial statements and discussions with USTIF. Claims administration cost projections are discussed below.
- The income and cash flow analyses include an item titled "DEP Assistance". These expected payments are a result of Senate Bill 722 passed in 2005. Section 5 of the Act reads "The department may request the board to reimburse the department up to \$3mln annually for its cost related to investigating, determining responsibility, overseeing remediation and third party response and closing out cases of spills and leaks related to storage tanks beginning in fiscal year 2007-2008." There is considerable uncertainty in the expected payments related to this Bill due to their dependence on factors such as the number of claims, number of grants applied for, and the amount of money received from the General Fund. In recent years, the bulk of the DEP Assistance payments have fallen under the base allocation (sections 710 (b)(b.1)(b.2) of the Act) and investigation and closure allocation (section 713 (a)) categories. The assistance in these categories is



not to exceed \$5.5mln and \$3.0mln, respectively. Based on discussions with USTIF, we have made the following assumptions: the DEP Assistance for 2013/14 is projected to be approximately \$5.7mln with a trend of approximately 2% per annum for subsequent years. The trend rate reflects the caps applicable to the base allocation and investigation and closure allocation categories.

- Our pro forma balance sheet includes a liability titled "other liabilities" which captures the
  estimated liability created by USTIF's four week lag in processing payments. The liability
  is set equal to 7.8% of the loss and ALAE payments for the prior twelve month period,
  with an additional provisional for other amounts payable (e.g., DEP Assistance).
- USTIF provided estimated annual claims administration costs for the period 7/1/2013 through the end of our projection period. The latest agreement with their TPA, ICF Consulting, has an effective date of 1/2007. Under that contract, ICF received a per claim payment for each open file ("takeover fee"). ICF was then entitled to additional takeover fees paid every other year based on the number of claims remaining open. These fees are in addition to vendor fees received for claim closures, new claims assigned and other administrative and miscellaneous charges. The impact of the takeover fees on TPA costs is that the costs will tend to be higher one year and then drop the following year with this two year pattern repeating. The estimated annual claims administration costs provided by USTIF follow this pattern out through the 2017 contract end date with each two year block repeating. Subsequently, a 4% annual expense trend is applied through the end of the projection period. USTIF is currently in the middle of a request for proposal process for TPA services. Although that process could ultimately impact future TPA fees, the impact is not predictable at this time.
- The prospective frequency and severity trends were selected based on a review of the trends in the historical data and our actuarial estimates. The selected trend rates are as follows: claim frequency trend is 0%, loss severity trend is +3.0% and ALAE severity trend is +4.0%. These trend rates are applied to the selected 2013/14 claim severities and frequency rate to give the future loss and ALAE projections. Please see Pro Form Exhibit 8 for more details.
- The "other cash" item in the cash flow analysis represents recovery amounts from subrogation and Federal EPA / Coast Guard funds (catastrophic release sites). These values tend to vary quite a bit from year to year. For purposes of our analysis, we have assumed \$150,000 of other cash per year throughout the projection period. These values were selected based on discussions with USTIF and are intended to be placeholders which do not materially impact the results of our analysis.
- The estimates in this report include a provision for long-term monitoring expenses associated with claims having an environmental covenant. These types of claims have Post Remedial Care Plans (PRCP) that could require site monitoring to be performed for a period of up to approximately 25 years. We have discussed this exposure with management and the Fund's third party administrator. USTIF and ICF are now tracking these costs and setting up case reserves. Please see the Data section and Exhibit 29 for more details.



# VII. Description of Exhibits

# Description of Exhibits - USTIF

In this section, we provide a description of the exhibits that support the USTIF loss and ALAE expense estimates. The exhibit discussion is presented in reverse order to match the natural flow of our analysis from data to estimates.

#### <u>Data Summary - Post Remedial Care Costs</u> (Exhibit 29)

Exhibit 29.1 summarizes the PRC costs by policy period and claim status. As noted in the data section, unlike PRC payments, the PRC case reserves associated with closed claims are not included in the main claims data. The additional PRC loss dollars for closed claims are considered in Exhibit 2 when we evaluate the incurred loss indications.

Exhibit 29.2 summarizes the PRC costs by PRC year. The PRC year is assigned based on the PRC agreement date.

#### **Data Summary – Fixed Price Contracts Through Close (Exhibit 28)**

Exhibit 28 summarizes the number of fixed price contracts for each policy year. The counts shown are the incremental number of fixed price contracts entered into as of each age based on the contract date of each agreement. For instance, the year 2 value for 2005 represents the number of fixed price contracts entered into during the period from 1/1/2006 through 12/31/2006. Only fixed price contracts expected to result in claim closure are included in this exhibit.

#### Data Summary - Loss, ALAE Expense and Claim Counts (Exhibits 25 through 27)

Exhibit 27 provides a summary of the claim count data by status type as of 6/30/2013. The total number of claims has been at a lower level in recent periods. According to USTIF, some possible drivers of this decrease are the mandatory tank upgrade instituted in 1998, more frequent inspections by the DEP and the 60 day reporting requirement which began in 2003.

The total number of open claims at recent valuation dates is presented in Exhibit 26. The number of open claims as of each valuation date has been decreasing since 2006. The decrease appears to be driven by USTIF's transition to fixed-priced contracts as well as the effects of the early closing program that started in 2004. Under the latter, USTIF works with the DEP to identify "stalled" sites and then puts them out for competitive bidding.

Exhibit 25 summarizes the loss and ALAE expense data as of 6/30/2013. Both paid and case incurred loss is summarized. USTIF does not set case reserves for ALAE, so only paid ALAE expense is data is summarized.

#### Data Summary - Supplemental Data Triangles (Exhibits 16 through 24)

Exhibits 16 through 24 present the following data triangles:



- Average Paid ALAE per Reported Claim (Exhibit 24)
- Ratio of Paid ALAE to Paid Loss (Exhibit 23)
- Average Case Outstanding Loss per Open Claim (Exhibit 22)
- Average Paid Loss per Closed Claim (Exhibit 21)
- Average Incurred Loss per Reported Claim (Exhibit 20)
- Ratio of Closed to Reported Claim Counts (Exhibit 19)
- Ratio of Paid Loss to Incurred Loss (Exhibit 18)
- Open Claim Counts (Exhibit 17)
- Closed Claim Counts (Exhibit 16)

#### **Development Factors (Exhibits 11 through 15)**

Exhibits 12 through 15 provide our review of the historical loss, ALAE expense and claim count development patterns. Age-to-Age development factors are selected at each age based on a review of the data and our actuarial judgment. Age-to-Ultimate factors are then computed by combining the Age-to-Age factors multiplicatively. The specific reviews are as follows:

- Paid ALAE Expense Development Factors (Exhibit 15)
- Reported Claim Count Development Factors (Exhibit 14)
- Paid Loss Development Factors (Exhibit 13)
- Incurred Loss Development Factors (Exhibit 12)

Exhibit 11 summarizes the selected cumulative development factors based on these reviews.

#### **Generalized Cape Cod Method - Paid ALAE (Exhibit 10)**

Exhibit 10 presents the estimated ultimate ALAE using the GCC method applied to the paid ALAE expense. We use the ultimate loss estimates from Exhibit 2 as the exposure proxy for this analysis. The exposure proxy is adjusted for the change in exposure associated with the coverage limit increase occurring in 2002. This adjustment is based on an increased limit adjustment factor (ILF) selected based on a review of the available data.

#### Paid ALAE Development Method (Exhibit 9)



The paid ALAE development method is presented in Exhibit 9. The paid ALAE development factors at each age are multiplied by the actual paid ALAE as of 6/30/2013 to estimate the ultimate ALAE expense.

#### **Summary of Ultimate ALAE Indications (Exhibit 8)**

Exhibit 8 summaries the estimated ultimate ALAE using the Paid Development method and the Cape Cod method. The ultimate ALAE expense is then selected by policy period based on a review of the indications and our actuarial judgment.

#### Reported Claim Count Development Method (Exhibit 7)

The Reported Claim Count Development method is presented in Exhibit 7. The claim count development factors at each age are multiplied by the actual claim counts as of 6/30/2013 to estimate the ultimate number of claims. Policy periods are on a claims-made basis, so only the most recent period is subject to development. The ultimate number of claims is used as the exposure proxy for the Generalized Cape Cod loss methods.

#### **Generalized Cape Cod Method - Paid Loss (Exhibit 6)**

Exhibit 6 presents the estimated ultimate loss using the GCC method applied to paid loss. We use the ultimate claim count estimates from Exhibit 7 as the exposure proxy for this analysis. The exposure proxy is adjusted for the change in exposure associated with the coverage limit increase occurring in 2002. This adjustment is based on an increased limit adjustment factor selected based on a review of the available data.

#### **Generalized Cape Cod Method - Reported Loss (Exhibit 5)**

Exhibit 5 presents the estimated ultimate loss using the GCC method applied to reported loss. We use the ultimate claim count estimates from Exhibit 7 as the exposure proxy for this analysis. The exposure proxy is adjusted for the change in exposure associated with the coverage limit increase occurring in 2002. This adjustment is based on an increased limit adjustment factor selected based on a review of the available data.

#### Paid Loss Development Method (Exhibit 4)

The Paid Loss Development method is presented in Exhibit 4. The paid loss development factors at each age are multiplied by the actual paid loss as of 6/30/2013 to estimate the ultimate loss.

#### **Incurred Loss Development Method (Exhibit 3)**

The Incurred Loss Development method is presented in Exhibit 3. The incurred loss development factors at each age are multiplied by the actual incurred loss as of 6/30/2013 to estimate the ultimate loss.

#### **Summary of Ultimate Loss Indications (Exhibit 2)**



Exhibit 2 summaries the estimated ultimate loss using the Development methods and the GCC methods. The ultimate loss is then selected by policy period based on a review of the policy year indications and our actuarial judgment.

#### Summary of Estimated Loss and ALAE Expense Reserves (Exhibit 1)

Exhibit 1(a) summarizes the ultimate loss estimates and presents the corresponding paid, unpaid, reported and unreported loss components. Exhibit 1(b) summarizes the ultimate ALAE expense estimates and presents the corresponding paid and unpaid expense components.

# Description of Pro Forma Exhibits - USTIF

In this section, we provide a description of the exhibits that support the balance sheet, income statement and cash flow statement as of June 30, 2013 and the subsequent twenty year financial projections.

#### Paid Loss & ALAE (Pro Forma 13)

Pro Forma 13 provides a summary of the paid loss, paid ALAE and the combined total by policy period. The values shown are taken directly from Exhibit 25.

#### Summary of Estimated Ultimate Loss & ALAE (Pro Forma 12)

Pro Forma 12 provides a summary of the estimated ultimate loss, estimated ultimate ALAE and the combined total by policy period. The values shown are taken directly from Exhibit 2 and Exhibit 8.

#### Estimated Payment Pattern (Pro Forma 10 and Pro Forma 11)

Pro Forma Exhibit 11 presents our review of the historical loss & ALAE payments. The payment percentages shown in the bottom triangle are stated relative to the ultimate loss and ALAE for each policy period. The selected payment pattern is based on a review of the data values and our professional judgment. The selected pattern is summarized in Pro Forma Exhibit 10. An interpolated pattern is also presented for ages other than those presented in Pro Forma Exhibit 11.

#### <u>Frequency and Severity Trend Selections (Pro Forma 9)</u>

Pro Forma Exhibit 9 presents the historical claim frequency, average loss severity and average ALAE severity values implied by our estimates. Trend rates are selected based on a review of the empirical trends and our professional judgment. The selected trend rates are used to project ultimate loss and ALAE for the future periods.

#### **Projected Ultimate Loss & ALAE for Future Periods (Pro Forma 7 and Pro Forma 8)**



Pro Forma Exhibit 8 presents the selection of the 2013/14 ultimate claim frequency, ultimate loss severity and ultimate ALAE severity. The selections are based on a review of the historical statistics trended to 2013/14 frequency and cost levels.

Pro Forma Exhibit 7 presents the loss and ALAE projections for the period July 1, 2013-14 through July 1, 2032-33. The projections are based on the assumptions in Pro Forma Exhibit 8 and Pro Forma Exhibit 9.

#### Projected Payments for Unpaid Loss and ALAE at 6/30/2013 (Pro Forma 3 & Pro Forma 5)

Pro Forma Exhibit 5 computes the loss and ALAE payment patterns for each historical period based on the payment patterns selected in Pro Forma Exhibit 10. Pro Forma Exhibit 3 applies these patterns to the unpaid loss as of 6/30/2013 to project the payment streams for the unpaid loss and ALAE as of 6/30/2013.

#### Projected Payments of Loss and ALAE for Future Periods (Pro Forma 4 & Pro Forma 6) )

Pro Forma Exhibit 6 computes the loss and ALAE payment patterns for each future period based on the payment patterns presented in Pro Forma Exhibit 10. Pro Forma Exhibit 4 applies these patterns to the future loss and ALAE projections to estimate the payment streams for the loss and ALAE associated with the future exposure periods.

#### Fee Revenue Summary and Projections (Pro Forma 2)

Pro Forma Exhibit 2 summarizes the capacity fees and throughput fees for the historical years. The fees are then restated at current rate levels. Based on review of these values, the 2013/14 expected revenue level is selected.

#### Cash Flow Statement (Pro Forma 1.3)

Pro Forma Exhibit 1.3 provides the Cash Flow Statements for fiscal year beginning July 1, 2013 through July 1, 2032 based on our analysis. The projections assume that 1) the current fee structure will be in effect during the entire period and 2) the GF Loan will be renegotiated in 2014 and that future payments will consist of \$5.7mln per year beginning in fiscal year 2014/15. Under these assumptions, the final GF Loan payment is expected to occur in fiscal year 2028/29. A summary of the results under other fee structures are included in the Executive Summary.

#### **Income Statement (Pro Forma 1.2)**

Pro Forma Exhibit 1.2 provides the Income Statements for each fiscal year beginning July 1, 2013 through July 1, 2032 based on our analysis. The projections assume that 1) the current fee structure will be in effect during the entire period and 2) the GF Loan will be renegotiated in 2014 and that future payments will consist of \$5.7mln per year beginning in fiscal year 2014/15. Under these assumptions, the final GF Loan payment is expected to occur in fiscal year 2028/29. A summary of the results under other fee structures are included in the Executive Summary.



#### **Balance Sheet (Pro Forma 1.1)**

Pro Forma Exhibit 1.1 provides the Balance Sheet Statements for each fiscal year ending June 30, 2013 through June 30, 2033 based on our analysis. The projections assume that 1) the current fee structure will be in effect during the entire period and 2) the GF Loan will be renegotiated in 2014 and that future payments will consist of \$5.7mln per year beginning in fiscal year 2014/15. Under these assumptions, the final GF Loan payment is expected to occur in fiscal year 2028/29. A summary of the results under other fee structures are included in the Executive Summary.

### Description of Appendix Exhibits - TIIP

In this section, we provide a description of the exhibits that support the projected annual TIIP underwriting income for the ten year period beginning July 1, 2013.

#### **Exposure Summary (Appendix Exhibit 6)**

Appendix Exhibit 6 summarizes the historical fee revenue and the number of tank removals, modifications and installations by period. The number of activities is projected for the 2013/14 period based on a review of the data and discussions with TIIP representatives.

#### **Summary of Claims Data (Appendix Exhibit 5)**

Appendix Exhibit 5 provides a summary of the detailed TIIP claims data valued as of June 30, 2013. There have been twenty six filed claims since 2002 with eight claims open or on appeal. The total reported loss & paid ALAE expense is approximately \$2.1mln, which represents a decrease of approximately \$247K compared to the June 2012 totals.

#### Estimated Loss Rate (Appendix Exhibit 4)

Appendix Exhibit 4 provides the support for our selected 2013/14 loss rate. The loss rate represents the expected ultimate loss per installed tank for the 2013/14 policy year. The estimation procedure is based on methods similar to those used in the USTIF analysis. Once the ultimate loss estimates are derived by policy year, they are trended to adjust for differences in cost levels and expressed relative to the exposure base (number of installed tanks). The 2013/14 loss rate is selected based on a review of the indications and our professional judgment.

#### Revenue Projections for 2013/14 (Appendix Exhibit 3)

The projected revenue for 2013/14 is based on the current fee structure and the projected number of activities / licensed companies is presented in Appendix Exhibit 3.

#### **Loss and Expense Projections (Appendix Exhibit 2)**

Appendix Exhibit 2 presents the loss and expense projections for the period 7/1/2013 through 6/30/2023. The number of tanks installed is expected to trend forward at 0% based on



discussions with TIIP representatives. The loss estimates are based on the loss rate selected in Appendix Exhibit 4. The annual ALAE expense costs are assumed to be at the same levels (relative to loss) as those implied in the USTIF projections. The estimated ULAE expense expectations were provided by TIIP.

#### **Summary of Results (Appendix Exhibit 1)**

The revenue and loss and expense projections are combined and summarized in Appendix Exhibit 1.



# VIII. Exhibits



#### USTIF Loss Fund Experience at 6/30/2013 Balance Sheet (Under Current Fee Structure)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
aso	of: 6/30/13	6/30/14	6/30/15	6/30/16	6/30/17	6/30/18	6/30/19	6/30/20	6/30/21	6/30/22	6/30/23
Cash & Invested Assets DCED Loan Receivable	163,845,231	165,987,202	174,593,476	179,618,921	183,103,043	184,471,112	183,644,607	181,220,280	177,261,561	171,893,331	165,932,764
General Fund Loan Receivable	67,500,000	67,500,000	61,800,000	56,100,000	50,400,000	44,700,000	39,000,000	33,300,000	27,600,000	21,900,000	16,200,000
Interest Receivable on GF Loan	14,113,452	14,521,519	14,917,377	15,286,714	15,629,397	15,945,294	16,234,271	16,496,192	16,730,923	16,938,328	17,118,269
Total Assets	245,458,683	248,008,721	251,310,853	251,005,635	249,132,441	245,116,407	238,878,878	231,016,472	221,592,484	210,731,658	199,251,034
Loss Outstanding	434,585,955	433,888,790	434,521,123	435,335,183	435,326,823	436,151,007	437,485,861	440,069,312	444,095,479	449,818,785	458,170,101
Other Liabilities	6,853,134	8,195,256	8,220,828	8,340,006	8,541,718	8,618,688	8,725,249	8,778,879	8,822,144	8,850,494	8,811,323
Total Liabilities	441,439,089	442,084,046	442,741,951	443,675,189	443,868,541	444,769,695	446,211,110	448,848,191	452,917,624	458,669,279	466,981,424
Undiscounted Surplus (Deficit)	(195,980,406)	(194,075,325)	(191,431,098)	(192,669,554)	(194,736,100)	(199,653,289)	(207,332,232)	(217,831,719)	(231,325,139)	(247,937,621)	(267,730,391)
Discount in Loss Outstanding (4%)	88,865,879	87,807,012	87,105,578	86,757,992	86,803,997	87,272,844	88,168,333	89,486,745	91,205,924	93,294,337	95,696,105
Discounted Surplus (Deficit)	(107,114,527)	(106,268,313)	(104,325,520)	(105,911,562)	(107,932,103)	(112,380,445)	(119,163,899)	(128,344,973)	(140,119,215)	(154,643,284)	(172,034,286)
as (	of:	6/30/24	6/30/25	6/30/26	6/30/27	6/30/28	6/30/29	6/30/30	6/30/31	6/30/32	6/30/33
		0,00,2	0.00.20	0.00.20	0,00,2.	0.00.20	0.00.20	0,00,00	0,00,01	0.00.02	0.00.00
Cash & Invested Assets		158,132,332	148,787,485	137,234,419	122,696,620	105,526,834	84,606,645	54,447,697	20,110,229	(18,714,036)	(62,323,310)
DCED Loan Receivable General Fund Loan Receivable		40.500.000	4 000 000	-	-	-	-	-	-	-	-
Interest Receivable on GF Loan		10,500,000 17,270,611	4,800,000 17,395,214	- 16,591,940	10,960,650	5,301,203	-	-	-	-	-
Total Assets		185,902,943	170,982,699	153,826,359	133,657,270	110,828,037	84,606,645	54,447,697	20,110,229	(18,714,036)	(62,323,310)
Total / toocto		100,002,040	170,002,000	100,020,000	100,007,270	110,020,007	04,000,040	04,447,007	20,110,220	(10,7 14,000)	(02,020,010)
Loss Outstanding		468,026,749	479,830,501	493,073,999	507,168,413	522,575,575	538,733,065	555,453,157	572,825,209	590,807,925	609,385,411
Other Liabilities		8,864,972	8,889,581	8,959,358	9,080,837	9,172,251	9,313,685	9,476,109	9,638,117	9,810,109	9,990,323
Total Liabilities		476,891,721	488,720,082	502,033,357	516,249,249	531,747,826	548,046,749	564,929,266	582,463,325	600,618,034	619,375,734
Undiscounted Surplus (Deficit)		(290,988,777)	(317,737,383)	(348,206,998)	(382,591,979)	(420,919,789)	(463,440,105)	(510,481,569)	(562,353,096)	(619,332,070)	(681,699,044)
Discount in Loss Outstanding (4%)		98,357,050	101,235,271	104,288,854	107,496,669	110,840,057	114,302,017	117,880,551	121,576,237	125,389,334	129,321,937
Discounted Surplus (Deficit)		(192,631,728)	(216,502,112)	(243,918,144)	(275,095,311)	(310,079,732)	(349,138,088)	(392,601,017)	(440,776,859)	(493,942,736)	(552,377,107)



#### USTIF Loss Fund Experience at 6/30/2013 Income Statement (Under Current Fee Structure)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Fiscal Year Beginning:	7/1/13	7/1/14	7/1/15	7/1/16	7/1/17	7/1/18	7/1/19	7/1/20	7/1/21	7/1/22	
Capacity Fee Revenue Throughput Fee Revenue Subtotal	6,300,000 54,300,000 60,600,000	6,300,000 53,757,000 60,057,000	6,300,000 53,219,430 59,519,430	6,300,000 52,687,236 58,987,236	6,300,000 52,160,363 58,460,363	6,300,000 51,638,760 57,938,760	6,300,000 51,122,372 57,422,372	6,300,000 50,611,148 56,911,148	6,300,000 50,105,037 56,405,037	6,300,000 49,603,987 55,903,987	
Incurred Losses & ALAE Claim Administration Other Expenses Subtotal	(53,088,167) (3,900,000) (1,690,000) (58,678,167)	(54,745,511) (2,300,000) (1,757,600) (58,803,111)	(56,455,163) (3,900,000) (1,827,904) (62,183,067)	(58,218,795) (2,300,000) (1,901,020) (62,419,815)	(60,038,136) (2,800,000) (1,977,061) (64,815,197)	(61,914,968) (2,912,000) (2,056,143) (66,883,112)	(63,851,133) (3,028,480) (2,138,389) (69,018,002)	(65,848,531) (3,149,619) (2,223,925) (71,222,075)	(67,909,125) (3,275,604) (2,312,882) (73,497,611)	(70,034,944) (3,406,628) (2,405,397) (75,846,969)	
Underwriting Income	1,921,833	1,253,889	(2,663,637)	(3,432,580)	(6,354,834)	(8,944,352)	(11,595,630)	(14,310,926)	(17,092,574)	(19,942,982)	
DCED Loan Interest Payments Interest Receivable on GF Loan	- 408,067	- 395,858	- 369,337	- 342,684	- 315,897	- 288,976	- 261,921	234,731	- 207,405	- 179,942	
DEP Assistance	(5,700,000)	(5,808,000)	(5,920,320)	(6,037,133)	(6,158,618)	(6,284,963)	(6,416,361)	(6,553,016)	(6,695,136)	(6,842,942)	
Investment Income	6,467,303	6,678,053	6,945,341	7,112,195	7,207,336	7,217,955	7,154,213	7,029,056	6,846,174	6,624,041	
Total Income	3,097,203	2,519,799	(1,269,279)	(2,014,834)	(4,990,218)	(7,722,383)	(10,595,856)	(13,600,155)	(16,734,132)	(19,981,941)	
Fiscal Year Beginning:	7/1/23	7/1/24	7/1/25	7/1/26	7/1/27	7/1/28	7/1/29	7/1/30	7/1/31	7/1/32	Total
Capacity Fee Revenue Throughput Fee Revenue Subtotal	6,300,000 49,107,947 55,407,947	6,300,000 48,616,867 54,916,867	6,300,000 48,130,699 54,430,699	6,300,000 47,649,392 53,949,392	6,300,000 47,172,898 53,472,898	6,300,000 46,701,169 53,001,169	6,300,000 46,234,157 52,534,157	6,300,000 45,771,815 52,071,815	6,300,000 45,314,097 51,614,097	6,300,000 44,860,956 51,160,956	126,000,000 988,765,329 1,114,765,329
Incurred Losses & ALAE Claim Administration Other Expenses	(72,228,078) (3,542,893) (2,501,613)	(74,490,690) (3,684,609) (2,601,677)	(76,825,011) (3,831,993) (2,705,744)	(79,233,345) (3,985,273) (2,813,974)	(81,718,073) (4,144,684) (2,926,533)	(84,281,652) (4,310,471) (3,043,595)	(86,926,620) (4,482,890) (3,165,338)	(89,655,598) (4,662,206) (3,291,952)	(92,471,292) (4,848,694) (3,423,630)	(95,376,498) (5,042,642) (3,560,575)	(1,445,311,328) (73,508,687) (50,324,953)
Subtotal	(78,272,584)	(80,776,976)	(83,362,748)	(86,032,593)	(88,789,290)	(91,635,718)	(94,574,849)	(97,609,755)	(100,743,616)	(103,979,714)	(1,569,144,968)
Underwriting Income	(22,864,637)	(25,860,109)	(28,932,050)	(32,083,201)	(35,316,393)	(38,634,549)	(42,040,692)	(45,537,940)	(49,129,518)	(52,818,758)	(454,379,639)
DCED Loan Interest Payments Interest Receivable on GF Loan	- 152,341	124,603	(803,274)	(5,631,290)	(5,659,447)	(5,301,203)	-	-	-	-	- (14,113,452)
DEP Assistance	(6,996,660)	(7,156,526)	(7,322,787)	(7,495,698)	(7,585,525)	(7,648,946)	(7,714,904)	(7,783,500)	(7,854,840)	(7,929,034)	(137,904,909)
Investment Income	6,354,218	6,018,036	5,608,273	5,096,687	4,474,970	3,728,107	2,726,556	1,461,920	27,376	(1,588,968)	103,188,843
Total Income	(23,354,738)	(26,873,996)	(31,449,838)	(40,113,503)	(44,086,395)	(47,856,591)	(47,029,040)	(51,859,520)	(56,956,982)	(62,336,759)	(503,209,158)



#### USTIF Loss Fund Experience at 6/30/2013 Cash Flow Statement (Under Current Fee Structure)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Fiscal Year Beginning:	7/1/13	7/1/14	7/1/15	7/1/16	7/1/17	7/1/18	7/1/19	7/1/20	7/1/21	7/1/22	
Initial Cash & Invested Assets	163,845,231	165,987,202	174,593,476	179,618,921	183,103,043	184,471,112	183,644,607	181,220,280	177,261,561	171,893,331	
Capacity Fee Revenue	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	
Throughput Fee Revenue	54,300,000	53,757,000	53,219,430	52,687,236	52,160,363	51,638,760	51,122,372	50,611,148	50,105,037	49,603,987	
Paid Losses & ALAE	(53,785,332)	(54,113,179)	(55,641,102)	(58,227,156)	(59,213,952)	(60,580,114)	(61,267,682)	(61,822,363)	(62,185,820)	(61,683,627)	
Paid Expenses	(5,590,000)	(4,057,600)	(5,727,904)	(4,201,020)	(4,777,061)	(4,968,143)	(5,166,869)	(5,373,544)	(5,588,486)	(5,812,025)	
DCED Loan Interest Payments	-	-									
Interest Receivable on GF Loan	-	-	-	-	-	-	-	-	-	-	
GF Loan Principal Payments	-	5,700,000	5,700,000	5,700,000	5,700,000	5,700,000	5,700,000	5,700,000	5,700,000	5,700,000	
DCED Loan Principal Payments	-	-	-								
DEP Assistance	(5,700,000)	(5,808,000)	(5,920,320)	(6,037,133)	(6,158,618)	(6,284,963)	(6,416,361)	(6,553,016)	(6,695,136)	(6,842,942)	
Other Cash	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	
Investment Income	6,467,303	6,678,053	6,945,341	7,112,195	7,207,336	7,217,955	7,154,213	7,029,056	6,846,174	6,624,041	
Total Cash Flow	2,141,971	8,606,274	5,025,445	3,484,122	1,368,069	(826,505)	(2,424,327)	(3,958,719)	(5,368,231)	(5,960,567)	
Ending Cash & Invested Assets	165,987,202	174,593,476	179,618,921	183,103,043	184,471,112	183,644,607	181,220,280	177,261,561	171,893,331	165,932,764	
Fiscal Year Beginning:	7/1/23	7/1/24	7/1/25	7/1/26	7/1/27	7/1/28	7/1/29	7/1/30	7/1/31	7/1/32	Total - All Years
Initial Cash & Invested Assets	165,932,764	158,132,332	148,787,485	137,234,419	122,696,620	105,526,834	84,606,645	54,447,697	20,110,229	(18,714,036)	163,845,231
Capacity Fee Revenue	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	6,300,000	126,000,000
Throughput Fee Revenue	49,107,947	48,616,867	48,130,699	47,649,392	47,172,898	46,701,169	46,234,157	45,771,815	45,314,097	44,860,956	988,765,329
Paid Losses & ALAE	(62,371,430)	(62,686,938)	(63,581,513)	(65,138,931)	(66,310,911)	(68,124,162)	(70,206,528)	(72,283,546)	(74,488,575)	(76,799,012)	(1,270,511,872)
Paid Expenses	(6,044,506)	(6,286,286)	(6,537,738)	(6,799,247)	(7,071,217)	(7,354,066)	(7,648,229)	(7,954,158)	(8,272,324)	(8,603,217)	(123,833,640)
DCED Loan Interest Payments	-	-	-	-	-	-	-	-	-	-	-
Interest Receivable on GF Loan	-	-	900.000	5,700,000	5,700,000	5,327,709	-	-	-	-	17.627.709
GF Loan Principay Payments	5,700,000	5,700,000	4,800,000	-	-	-	-	-	-	-	67,500,000
DCED Loan Principal Payments	-	-	-	_	_	-	_	-	_	_	-
DEP Assistance	(6,996,660)	(7,156,526)	(7,322,787)	(7,495,698)	(7,585,525)	(7,648,946)	(7,714,904)	(7,783,500)	(7,854,840)	(7,929,034)	(137,904,909)
Other Cash	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	3,000,000
		•	,	,	,		,		,	•	
Investment Income	6,354,218	6,018,036	5,608,273	5,096,687	4,474,970	3,728,107	2,726,556	1,461,920	27,376	(1,588,968)	103,188,843
Total Cash Flow	(7,800,432)	(9,344,847)	(11,553,066)	(14,537,798)	(17,169,786)	(20,920,190)	(30,158,947)	(34,337,468)	(38,824,265)	(43,609,273)	(226,168,541)
Ending Cash & Invested Assets	158,132,332	148,787,485	137,234,419	122,696,620	105,526,834	84,606,645	54,447,697	20,110,229	(18,714,036)	(62,323,310)	(62,323,310)



#### USTIF Loss Fund Experience at 6/30/2013 Fee Revenue Summary

	Ca	apacity Fee Reven	ue	Throughput Fee Revenue				
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
		Prior Rate -	Capacity Fee @		Prior Rate -	Throughput Fee		
Calendar Year	Capacity Fee	Average	Current Rate	Gallon Fee	Average	@ Current Rate		
1997	\$13,469,895	\$0.1500	\$7,408,442	\$45,633,775	\$0.010	\$50,197,152		
1998	\$12,596,369	\$0.1000	\$10,392,004	\$23,955,393	\$0.005	\$52,701,864		
1999	\$2,091,930	\$0.0200	\$8,629,211	\$7,133,748	\$0.001	\$78,471,230		
2000	\$1,247,231	\$0.0100	\$10,289,656	\$2,716,302	\$0.001	\$59,758,652		
2001	\$1,076,555	\$0.0100	\$8,881,578	\$2,511,814	\$0.001	\$55,259,906		
2002	\$2,289,895	\$0.0171	\$11,066,792	\$4,113,787	\$0.001	\$51,821,593		
2003	\$5,178,503	\$0.0750	\$5,696,353	\$45,014,126	\$0.010	\$49,515,539		
2004	\$8,492,561	\$0.0825	\$8,492,561	\$56,217,277	\$0.011	\$56,217,277		
2005	\$6,389,773	\$0.0825	\$6,389,773	\$54,440,651	\$0.011	\$54,440,651		
2006	\$5,944,699	\$0.0825	\$5,944,699	\$54,683,549	\$0.011	\$54,683,549		
2007	\$6,178,435	\$0.0825	\$6,178,435	\$56,156,427	\$0.011	\$56,156,427		
2008	\$6,367,001	\$0.0825	\$6,367,001	\$52,606,701	\$0.011	\$52,606,701		
2009	\$6,125,056	\$0.0825	\$6,125,056	\$52,578,489	\$0.011	\$52,578,489		
2010	\$7,090,131	\$0.0825	\$7,090,131	\$54,242,194	\$0.011	\$54,242,194		
2011	\$5,585,096	\$0.0825	\$5,585,096	\$53,211,533	\$0.011	\$53,211,533		
2012	\$7,356,000	\$0.0825	\$7,356,000	\$54,341,839	\$0.011	\$54,341,839		
2013	\$2,326,375	\$0.0825	\$2,326,375	\$26,513,763	\$0.011	\$26,513,763		
Total	\$99,805,505		\$124,219,165	\$646,071,368		\$912,718,359		
Control	\$99,805,505		\$124,219,165	\$646,071,368		\$912,718,359		
Selected for 201	3/2014 Under Currer	t Fee Structure	\$6,300,000			54,300,000		

(2) & (5) Provided by USTIF.

(3) & (6) Exposure weighted average of monthly rates.

(4) = (2) / (3) \* 0.0825(7) = (5) / (6) \* 0.011

(2) - (7) Values for 2013 represent the six month period 1/1 - 6/30.



#### USTIF Loss Fund Experience at 6/30/2013 Projected Loss & ALAE Payments for Unpaid Losses as of 6/30/2013

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)		
					Payment Year Beginning <sup>3</sup>											
Report Year Beginning 1/1	Ultimate Losses & ALAE <sup>1</sup>	Paid Loss & ALAE as of 6/30/13 <sup>2</sup>	Estimated Unpaid as of 6/30/13	Development Age as of 6/30/13	07/01/13	07/01/14	07/01/15	07/01/16	07/01/17	07/01/18	07/01/19	07/01/20	07/01/21	07/01/22		
1994	18,450,000	16,960,856	1,489,144	234	372,286	372,286	372,286	372,286	-	-	-	_	-	-		
1995	51,578,019	45,385,634	6,192,385	222	1,238,477	1,238,477	1,238,477	1,238,477	1,238,477	-	-	-	-	-		
1996	65,963,517	56,070,870	9,892,647	210	1,930,189	1,592,492	1,592,492	1,592,492	1,592,492	1,592,492	-	-	-	-		
1997	81,986,640	70,964,001	11,022,639	198	1,094,320	1,937,149	1,598,234	1,598,234	1,598,234	1,598,234	1,598,234	-	-	-		
1998	116,859,688	99,267,204	17,592,484	186	1,762,772	1,571,563	2,781,958	2,295,238	2,295,238	2,295,238	2,295,238	2,295,238	-	-		
1999	139,257,414	114,222,172	25,035,242	174	2,897,564	2,218,202	1,977,593	3,500,705	2,888,236	2,888,236	2,888,236	2,888,236	2,888,236	-		
2000	84,670,010	67,561,969	17,108,041	162	804,828	1,886,924	1,444,517	1,287,829	2,279,696	1,880,850	1,880,850	1,880,850	1,880,850	1,880,850		
2001	98,591,921	75,362,419	23,229,502	150	3,122,521	945,909	2,217,691	1,697,732	1,513,578	2,679,313	2,210,552	2,210,552	2,210,552	2,210,552		
2002	81,073,964	59,247,608	21,826,356	138	2,405,582	2,610,550	790,817	1,854,077	1,419,370	1,265,411	2,240,011	1,848,108	1,848,108	1,848,108		
2003	52,600,000	36,433,179	16,166,821	126	1,971,890	1,564,488	1,697,790	514,314	1,205,812	923,098	822,969	1,456,807	1,201,930	1,201,930		
2004	73,840,937	48,387,478	25,453,459	114	3,767,182	2,645,105	2,098,614	2,277,427	689,904	1,617,485	1,238,250	1,103,936	1,954,171	1,612,277		
2005	54,571,873	34,044,114	20,527,759	102	1,923,944	2,753,416	1,933,295	1,533,867	1,664,561	504,248	1,182,212	905,031	806,862	1,428,294		
2006	42,447,334	24,117,224	18,330,110	90	2,049,690	1,525,866	2,183,714	1,533,283	1,216,499	1,320,151	399,915	937,604	717,773	639,916		
2007	49,037,579	25,579,250	23,458,329	78	2,907,472	2,298,016	1,710,730	2,448,278	1,719,044	1,363,882	1,480,091	448,366	1,051,197	804,734		
2008	47,000,000	21,278,261	25,721,739	66	2,862,295	2,833,245	2,239,349	1,667,055	2,385,774	1,675,158	1,329,062	1,442,305	436,919	1,024,361		
2009	46,000,000	16,792,828	29,207,172	54	3,603,674	2,849,137	2,820,221	2,229,055	1,659,392	2,374,807	1,667,457	1,322,953	1,435,675	434,911		
2010	43,000,000	13,085,279	29,914,721	42	3,400,180	3,271,448	2,586,473	2,560,223	2,023,556	1,506,411	2,155,872	1,513,733	1,200,989	1,303,319		
2011	49,400,000	8,574,608	40,825,392	30	4,764,797	4,098,735	3,943,556	3,117,854	3,086,212	2,439,289	1,815,898	2,598,788	1,824,724	1,447,727		
2012	49,004,147	2,846,016	46,158,131	18	6,408,188	4,639,280	3,990,764	3,839,672	3,035,722	3,004,913	2,375,032	1,768,063	2,530,329	1,776,656		
1/1/13-6/30/13	25,508,814	74,933	25,433,881	6	2,117,978	3,236,974	2,343,444	2,015,859	1,939,537	1,533,437	1,517,875	1,199,702	893,103	1,278,148		
Total:	1,270,841,858	836,255,903	434,585,955		51,405,829	46,089,265	41,562,014	39,173,955	35,451,334	32,462,650	29,097,752	25,820,270	22,881,418	18,891,783		
	Payment Year Reginning (Continued) <sup>3</sup>															

				_	Payment Year Beginning (Continued) <sup>3</sup>									
Report Year Beginning 1/1	Ultimate Losses & ALAE <sup>1</sup>	Paid Loss & ALAE as of 6/30/13 <sup>2</sup>	Estimated Unpaid as of 6/30/13	Development Age as of 6/30/13	07/01/23	07/01/24	07/01/25	07/01/26	07/01/27	07/01/28	07/01/29	07/01/30	07/01/31	07/01/32
1994	18,450,000	16,960,856	1,489,144	234	-	-	-	-	-	-	-	-	-	-
1995	51,578,019	45,385,634	6,192,385	222	-	-	-	-	-	-	-	-	-	-
1996	65,963,517	56,070,870	9,892,647	210	-	-	-	-	-	-	-	-	-	-
1997	81,986,640	70,964,001	11,022,639	198	-	-	-	-	-	-	-	-	-	-
1998	116,859,688	99,267,204	17,592,484	186	-	-	-	-	-	-	-	-	-	-
1999	139,257,414	114,222,172	25,035,242	174	-	-	-	-	-	-	-	-	-	-
2000	84,670,010	67,561,969	17,108,041	162	-	-	-	-	-	-	-	-	-	-
2001	98,591,921	75,362,419	23,229,502	150	2,210,552	-	-	-	-	-	-	-	-	-
2002	81,073,964	59,247,608	21,826,356	138	1,848,108	1,848,108	-	-	-	-	-	-	-	-
2003	52,600,000	36,433,179	16,166,821	126	1,201,930	1,201,930	1,201,930	-	-	-	-	-	-	-
2004	73,840,937	48,387,478	25,453,459	114	1,612,277	1,612,277	1,612,277	1,612,277	-	-	-	-	-	-
2005	54,571,873	34,044,114	20,527,759	102	1,178,406	1,178,406	1,178,406	1,178,406	1,178,406	-	-	-	-	-
2006	42,447,334	24,117,224	18,330,110	90	1,132,770	934,585	934,585	934,585	934,585	934,585	-	-	-	-
2007	49,037,579	25,579,250	23,458,329	78	717,444	1,270,009	1,047,813	1,047,813	1,047,813	1,047,813	1,047,813	-	-	-
2008	47,000,000	21,278,261	25,721,739	66	784,189	699,128	1,237,586	1,021,063	1,021,063	1,021,063	1,021,063	1,021,063	-	-
2009	46,000,000	16,792,828	29,207,172	54	1,019,652	780,584	695,914	1,231,897	1,016,369	1,016,369	1,016,369	1,016,369	1,016,369	-
2010	43,000,000	13,085,279	29,914,721	42	394,816	925,649	708,622	631,757	1,118,327	922,669	922,669	922,669	922,669	922,669
2011	49,400,000	8,574,608	40,825,392	30	1,571,081	475,930	1,115,821	854,206	761,549	1,348,083	1,112,228	1,112,228	1,112,228	1,112,228
2012	49,004,147	2,846,016	46,158,131	18	1,409,591	1,529,695	463,392	1,086,427	831,704	741,488	1,312,571	1,082,929	1,082,929	1,082,929
1/1/13-6/30/13	25,508,814	74,933	25,433,881	6	897,444	712,028	772,696	234,074	548,788	420,119	374,549	663,020	547,021	547,021
Total:	1,270,841,858	836,255,903	434,585,955	Total:	15,978,260	13,168,329	10,969,043	9,832,504	8,458,604	7,452,190	6,807,262	5,818,279	4,681,217	3,664,848

 Check Totals
 Unpaid at 6/30/2013
 Paid 7/13 - 7/33
 Unpaid at 7/1/33

 Values per Payment Projections
 434,595,955
 429,666,804
 4,919,150

 Control (Per Pro Forma 10)
 4,919,150

<sup>&</sup>lt;sup>1</sup> From Pro Forma 12 with 2013 pro-rated for partial period.

<sup>&</sup>lt;sup>2</sup> From Pro Forma 13.

<sup>&</sup>lt;sup>3</sup> Per Pro Forma 5 applied to (4).



# USTIF Loss Fund Experience at 6/30/2013 Projected Loss & ALAE Payments for Report Years 7/01/13-14 and Subsequent

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	_					Payment Ye	ear Beginning <sup>2</sup>				
Report Year	Ultimate Losses &										
Beginning 7/1	ALAE <sup>1</sup>	07/01/13	07/01/14	07/01/15	07/01/16	07/01/17	07/01/18	07/01/19	07/01/20	07/01/21	07/01/22
2013	53,088,167	2,379,503	5,570,126	5,804,653	4,534,470	4,114,333	3,612,527	3,173,921	2,826,775	2,176,899	2,258,497
2014	54,745,511	-	2,453,788	5,744,018	5,985,866	4,676,030	4,242,777	3,725,305	3,273,006	2,915,023	2,244,859
2015	56,455,163	-	-	2,530,417	5,923,399	6,172,800	4,822,058	4,375,275	3,841,643	3,375,219	3,006,057
2016	58,218,795	-	-	-	2,609,466	6,108,443	6,365,635	4,972,697	4,511,957	3,961,654	3,480,660
2017	60,038,136	-	-	-	-	2,691,012	6,299,332	6,564,561	5,128,094	4,652,956	4,085,456
2018	61,914,968	-	-	-	-	-	2,775,135	6,496,254	6,769,774	5,288,402	4,798,410
2019	63,851,133	-	-	-	-	-	-	2,861,917	6,699,400	6,981,474	5,453,777
2020	65,848,531	-	-	-	-	-	-	-	2,951,444	6,908,971	7,199,869
2021	67,909,125	-	-	-	-	-	-	-	-	3,043,804	7,125,174
2022	70,034,944	-	-	-	-	-	-	-	-	-	3,139,086
2023	72,228,078	-	-	-	-	-	-	-	-	-	-
2024	74,490,690	-	-	-	-	-	-	-	-	-	-
2025	76,825,011	-	-	-	-	-	-	-	-	-	-
2026	79,233,345	-	-	-	-	-	-	-	-	-	-
2027	81,718,073	-	-	-	-	-	-	-	-	-	-
2028	84,281,652	-	-	-	-	-	-	-	-	-	-
2029	86,926,620	-	-	-	-	-	-	-	-	-	-
2030	89,655,598	-	-	-	-	-	-	-	-	-	-
2031	92,471,292	-	-	-	-	-	-	-	-	-	-
2032	95,376,498	-	-	-	-	-	-	-	-	-	-
	Total:	2 379 503	8 023 914	14 079 088	19 053 201	23 762 618	28 117 464	32 169 930	36 002 093	39 304 402	42 791 845

	_	Payment Year Beginning (Continued) <sup>2</sup>											
Report Year	Ultimate Losses &												
Beginning 7/1	ALAE <sup>1</sup>	07/01/23	07/01/24	07/01/25	07/01/26	07/01/27	07/01/28	07/01/29	07/01/30	07/01/31	07/01/32		
2013	53,088,167	2,263,012	1,674,144	1,544,384	1,047,225	814,319	1,007,840	826,600	1,079,261	1,258,664	1,138,004		
2014	54,745,511	2,329,004	2,333,660	1,726,409	1,592,597	1,079,918	839,741	1,039,304	852,405	1,112,954	1,297,958		
2015	56,455,163	2,314,964	2,401,737	2,406,538	1,780,323	1,642,333	1,113,642	865,965	1,071,760	879,025	1,147,711		
2016	58,218,795	3,099,965	2,387,282	2,476,766	2,481,718	1,835,940	1,693,639	1,148,432	893,018	1,105,241	906,485		
2017	60,038,136	3,589,430	3,196,839	2,461,885	2,554,165	2,559,271	1,893,313	1,746,565	1,184,321	920,925	1,139,780		
2018	61,914,968	4,213,170	3,701,638	3,296,774	2,538,845	2,634,010	2,639,276	1,952,499	1,801,164	1,221,343	949,713		
2019	63,851,133	4,948,463	4,344,922	3,817,394	3,399,869	2,618,238	2,716,379	2,721,810	2,013,556	1,857,488	1,259,536		
2020	65,848,531	5,624,383	5,103,261	4,480,840	3,936,810	3,506,224	2,700,142	2,801,353	2,806,954	2,076,545	1,915,595		
2021	67,909,125	7,425,174	5,800,386	5,262,957	4,621,059	4,060,004	3,615,944	2,784,638	2,889,016	2,894,791	2,141,526		
2022	70,034,944	7,348,219	7,657,611	5,981,961	5,427,708	4,765,716	4,187,098	3,729,137	2,871,808	2,979,453	2,985,410		
2023	72,228,078	3,237,386	7,578,327	7,897,408	6,169,285	5,597,676	4,914,953	4,318,216	3,845,914	2,961,738	3,072,754		
2024	74,490,690	-	3,338,801	7,815,726	8,144,802	6,362,544	5,773,028	5,068,919	4,453,488	3,966,391	3,054,517		
2025	76,825,011	-	-	3,443,429	8,060,648	8,400,036	6,561,927	5,953,938	5,227,764	4,593,048	4,090,686		
2026	79,233,345	-	-	-	3,551,374	8,313,335	8,663,363	6,767,632	6,140,584	5,391,646	4,737,032		
2027	81,718,073	-	-	-	-	3,662,744	8,574,039	8,935,043	6,979,863	6,333,151	5,560,726		
2028	84,281,652	-	-	-	-	-	3,777,648	8,843,015	9,215,344	7,198,828	6,531,828		
2029	86,926,620	-	-	-	-	-	-	3,896,200	9,120,531	9,504,544	7,424,745		
2030	89,655,598	-	-	-	-	-	-	-	4,018,518	9,406,861	9,802,930		
2031	92,471,292	-	-	-	-	-	-	-	-	4,144,722	9,702,290		
2032	95,376,498	-	-	-	-	-	-	-	-	-	4,274,938		
	Total:	46,393,171	49,518,609	52,612,470	55,306,427	57,852,307	60,671,972	63,399,265	66,465,267	69,807,358	73,134,164		

Check Totals		Paid Thru 7/01/2033	Unpaid at 7/01/2033	Total
Values pe	r Payment Projections	840,845,067	604,466,261	1,445,311,328
		Control (Sum of I	Ultimate Losses & ALAE)	1,445,311,328

<sup>&</sup>lt;sup>1</sup> Based on Pro Forma 7, Columns (6) and (8).

<sup>&</sup>lt;sup>2</sup> Per Pro Forma 6 applied to (2).



USTIF Loss Fund Experience at 6/30/2013 Projected Loss & ALAE Payout Percentages For Unpaid Losses as of 6/30/2013

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
					Payment Ye	ar Beginning				
	7/1/13	7/1/14	7/1/15	7/1/16	7/1/17	7/1/18	7/1/19	7/1/20	7/1/21	7/1/22
Report Year Development Age										
270	1.000	-	-	-	-	-	-	-	-	-
258	0.500	0.500	-	-	-	-	-	-	-	-
246	0.333	0.333	0.333	-	-	-	-	-	-	-
234	0.250	0.250	0.250	0.250	-	-	-	-	-	-
222	0.200	0.200	0.200	0.200	0.200	-	-	-	-	-
210	0.195	0.161	0.161	0.161	0.161	0.161	-	-	-	-
198	0.099	0.176	0.145	0.145	0.145	0.145	0.145	-	-	-
186	0.100	0.089	0.158	0.130	0.130	0.130	0.130	0.130	_	-
174	0.116	0.089	0.079	0.140	0.115	0.115	0.115	0.115	0.115	-
162	0.047	0.110	0.084	0.075	0.133	0.110	0.110	0.110	0.110	0.110
150	0.134	0.041	0.095	0.073	0.065	0.115	0.095	0.095	0.095	0.095
138	0.110	0.120	0.036	0.085	0.065	0.058	0.103	0.085	0.085	0.085
126	0.122	0.097	0.105	0.032	0.075	0.057	0.051	0.090	0.074	0.074
114	0.122	0.104	0.082	0.032	0.027	0.064	0.049	0.043	0.074	0.063
102	0.094	0.134	0.094	0.075	0.027	0.025	0.058	0.044	0.039	0.070
90	0.112	0.083	0.119	0.073	0.066	0.072	0.022	0.051	0.039	0.035
78	0.124	0.098	0.073	0.104	0.073	0.058	0.063	0.019	0.045	0.034
66	0.124	0.098	0.073	0.065	0.073	0.065	0.052	0.019	0.045	0.040
54	0.113	0.098	0.097	0.065	0.057	0.081	0.052	0.045	0.049	
42	0.123									0.015
42 30	0.114	0.109 0.100	0.086	0.086 0.076	0.068 0.076	0.050 0.060	0.072 0.044	0.051	0.040 0.045	0.044 0.035
			0.097					0.064		
18 6	0.139 0.083	0.101 0.127	0.086 0.092	0.083 0.079	0.066 0.076	0.065 0.060	0.051 0.060	0.038 0.047	0.055 0.035	0.038 0.050
	7/1/23	7/1/24	7/1/25	7/1/26	yment Year Beg 7/1/27	ginning (Contin 7/1/28	ued) 7/1/29	7/1/30	7/1/31	7/1/32
Report Year	.,.,_0	.,.,	.,.,_0	.,.,_0	.,.,	.,.,_0	.,.,_0	.,.,,,,	.,.,	.,.,,,
Development Age										
270	_	-	-	-	_	-	_	_	_	-
258	_	-	-	-	_	-	_	_	_	-
246	_	_	_	_	_	_	_	_	_	_
234	_	_	_	_	_	_	_	_	_	_
222										
210										
198			-			-	-	-		-
186	-	-	-	-	-	-	-	-	-	-
174	-	-	-	-		-	-	-	-	-
162	-	-	-	-	-	-	-	-	-	-
150	0.095	-	-	-		-	-	-	-	-
138	0.095	0.085	-		-	-	-	-	-	-
126	0.074	0.074	0.074	-	-	-	-	-	-	-
					-	-	-	-	-	-
114	0.063	0.063	0.063	0.063	0.057	-	-	-	-	-
102	0.057	0.057	0.057	0.057	0.057	0.054	-	-	-	-
90	0.062	0.051	0.051	0.051	0.051	0.051	0.045	-	-	-
78	0.031	0.054	0.045	0.045	0.045	0.045	0.045	- 0.040	-	-
66	0.030	0.027	0.048	0.040	0.040	0.040	0.040	0.040	-	-
54	0.035	0.027	0.024	0.042	0.035	0.035	0.035	0.035	0.035	-
42	0.013	0.031	0.024	0.021	0.037	0.031	0.031	0.031	0.031	0.031
30	0.038	0.012	0.027	0.021	0.019	0.033	0.027	0.027	0.027	0.027
18	0.031	0.033	0.010	0.024	0.018	0.016	0.028	0.023	0.023	0.023
6	0.035	0.028	0.030	0.009	0.022	0.017	0.015	0.026	0.022	0.022

Note: Percentages derived from payment pattern in Pro Forma 10.



#### USTIF Loss Fund Experience at 6/30/2013 Projected Loss & ALAE Payout Percentages Incremental Payout Percentages for Report Years 2013/14 and Subsequent

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
_					Payment Ye	ar Beginning				
_	7/1/13	7/1/14	7/1/15	7/1/16	7/1/17	7/1/18	7/1/19	7/1/20	7/1/21	7/1/22
Report Year Beginning 7/1:										
2013	0.045	0.105	0.109	0.085	0.078	0.068	0.060	0.053	0.041	0.043
2013	0.043	0.045	0.105	0.109	0.085	0.078	0.068	0.060	0.053	0.041
2015		0.045	0.045	0.105	0.109	0.085	0.078	0.068	0.060	0.053
2016		-		0.045	0.109	0.109	0.078	0.068	0.068	0.060
	-	-	-							
2017	-	-	-	-	0.045	0.105	0.109	0.085	0.078	0.068
2018	-	-	-	-	-	0.045	0.105	0.109	0.085	0.078
2019	-	-	-	-	-	-	0.045	0.105	0.109	0.085
2020	-	-	-	-	-	-	-	0.045	0.105	0.109
2021	-	-	-	-	-	-	-	-	0.045	0.105
2022	-	-	-	-	-	-	-	-	-	0.045
2023	-	-	-	-	-	-	-	-	-	-
2024	-	-	-	-	-	-	-	-	-	-
2025	-	_	_	-	-	_	-	-	_	-
2026	-	_	_	-	-	_	-	-	_	-
2027	_	_	_	-	-	_	_	_	_	_
2028	_	_	_	-	_	_	_	_	_	_
2029	_	_	_	_	_	_	_	_	_	_
2030	-	_	_	-	-	-	_	_	_	-
2031	_	_	_	_	_	_		_	_	_
2032	-	-	-	-	-	-	-	-	-	-

	Payment Year Beginning (Continued)													
_	7/1/23	7/1/24	7/1/25	7/1/26	7/1/27	7/1/28	7/1/29	7/1/30	7/1/31	7/1/32				
Report Year														
Beginning 7/1:														
2013	0.043	0.032	0.029	0.020	0.015	0.019	0.016	0.020	0.024	0.021				
2014	0.043	0.043	0.032	0.029	0.020	0.015	0.019	0.016	0.020	0.024				
2015	0.041	0.043	0.043	0.032	0.029	0.020	0.015	0.019	0.016	0.020				
2016	0.053	0.041	0.043	0.043	0.032	0.029	0.020	0.015	0.019	0.016				
2017	0.060	0.053	0.041	0.043	0.043	0.032	0.029	0.020	0.015	0.019				
2018	0.068	0.060	0.053	0.041	0.043	0.043	0.032	0.029	0.020	0.015				
2019	0.078	0.068	0.060	0.053	0.041	0.043	0.043	0.032	0.029	0.020				
2020	0.085	0.078	0.068	0.060	0.053	0.041	0.043	0.043	0.032	0.029				
2021	0.109	0.085	0.078	0.068	0.060	0.053	0.041	0.043	0.043	0.032				
2022	0.105	0.109	0.085	0.078	0.068	0.060	0.053	0.041	0.043	0.043				
2023	0.045	0.105	0.109	0.085	0.078	0.068	0.060	0.053	0.041	0.043				
2024	-	0.045	0.105	0.109	0.085	0.078	0.068	0.060	0.053	0.041				
2025	-	-	0.045	0.105	0.109	0.085	0.078	0.068	0.060	0.053				
2026	-	-	-	0.045	0.105	0.109	0.085	0.078	0.068	0.060				
2027	-	-	-	-	0.045	0.105	0.109	0.085	0.078	0.068				
2028	-	-	-	-	-	0.045	0.105	0.109	0.085	0.078				
2029	-	-	-	-	-	-	0.045	0.105	0.109	0.085				
2030	-	-	-	-	-	-	-	0.045	0.105	0.109				
2031	-	-	-	-	-	-	-	-	0.045	0.105				
2032	-	-	-	-	-	-	-	-	-	0.045				

Note: Based on 12, 24,36... payment pattern in Pro Forma 10.

(8)

(7)

71,098

73,942

76,900



(1)

7/1/30-31

7/1/31-32

7/1/32-33

(2)

## Pennsylvania Insurance Department / Bureau of Special Funds USTIF Loss Fund

## USTIF Loss Fund Experience at 6/30/2013 Projected Ultimate Loss & ALAE for July 1, 2013 Through June 30, 2033

(5)

434,699

447,740

461,172

(6)

77,052,986

79,364,576

81,745,513

(4)

177

177

177

**Estimated Projected Number Estimated Claim** Estimated Ultimate Estimated Ultimate Estimated Ultimate Ultimated ALAE **Estimated Ultimate** ALAE **Policy Period** of Tanks Frequency Claim Counts Loss Severity Loss Severity 177 7/1/13-14 24.282 0.0073 263.000 46.618.324 36.500 6,469,843 177 7/1/14-15 24,282 0.0073 270,890 37,960 48,016,874 6,728,637 7/1/15-16 24,282 0.0073 177 279,017 49,457,380 39,478 6,997,783 7/1/16-17 177 41,058 24,282 0.0073 287,387 50,941,101 7,277,694 7/1/17-18 24,282 0.0073 177 296,009 52,469,334 42,700 7,568,802 7/1/18-19 177 24,282 0.0073 304,889 54,043,414 44,408 7,871,554 7/1/19-20 177 24.282 0.0073 314.036 55.664.717 46.184 8.186.416 177 7/1/20-21 24,282 0.0073 323.457 57,334,658 48.032 8,513,873 7/1/21-22 24,282 0.0073 177 333.161 59,054,698 49.953 8,854,427 7/1/22-23 24,282 0.0073 177 343,155 60,826,339 51,951 9,208,605 7/1/23-24 24.282 0.0073 177 353.450 62,651,129 54.029 9.576.949 7/1/24-25 24,282 0.0073 177 364.054 64,530,663 56.190 9,960,027 7/1/25-26 24.282 0.0073 177 374.975 66.466.583 58.438 10.358.428 7/1/26-27 24,282 0.0073 177 386,224 60,775 68,460,580 10,772,765 7/1/27-28 24,282 0.0073 177 397,811 70,514,398 63,206 11,203,675 7/1/28-29 24,282 177 409,745 72,629,830 65,734 0.0073 11,651,823 7/1/29-30 24,282 0.0073 177 422,038 74,808,725 68,364 12,117,895

0.0073

0.0073

0.0073

(3)

24,282

24,282

24,282

12,602,611

13,106,716

13,630,984

<sup>(2)</sup> Projected using number of tanks from Pro Forma 9 with a 0% annual growth rate.

<sup>(3)</sup> Selected 2013/14 claim frequency from Pro Forma 8 trended to the midpoint of each policy period using a 0% trend rate from Pro Forma 9.

 $<sup>(4) = (2) \</sup>times (3)$ 

<sup>(5)</sup> Selected 2013/14 loss severity from Pro Forma 8 trended to the midpoint of each policy period using a 3.0% trend rate from Pro Forma 9.

 $<sup>(6) = (4) \</sup>times (5)$ 

<sup>(7)</sup> Selected 2013/14 ALAE severity from Pro Forma 8 trended to the midpoint of each policy period using a 4.0% trend rate from Pro Forma 9.

 $<sup>(8) = (4) \</sup>times (7)$ 



### USTIF Loss Fund Experience at 6/30/2013 1/1/2014 Frequency & Severity Assumptions

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Policy Period	Ultimate Claim Frequency	Claim Frequency Trend Factor	1/1/2014 Trended Ult Claim Freq	Ultimate Loss Severity	Loss Severity Trend Factor	1/1/2014 Trended Ult Loss Severity	Ultimate ALAE Severity	ALAE Severity Trend Factor	1/1/2014 Trended Ult ALAE Severity
1994		1.0000		04.706	1.7796	160 540	12.024	2.1486	20.704
	0.0006	1.0000	0.0006	94,706	1.7796	168,540	13,824		29,701
1995 1996	0.0086 0.0083	1.0000	0.0086 0.0083	128,489 166,190	1.6775	222,001 278,776	4,102 6,039	2.0659 1.9865	8,475
1996		1.0000	0.0083	180.919		,	,		11,996
1998	0.0101 0.0165	1.0000	0.0101	207,674	1.6286 1.5812	294,644 328,367	8,427 13,233	1.9101 1.8366	16,096 24,303
1999	0.0180	1.0000	0.0180	228,846	1.5351	351,303	13,763	1.7660	24,305
2000	0.0180	1.0000	0.0180	223,511	1.4904	333,121	14,326	1.6980	
2000	0.0118	1.0000	0.0118	280,174	1.4470	405,409	15,898	1.6327	24,326 25,957
2001	0.0113	1.0000	0.0113	219,410	1.4048	308,236	12,894	1.5699	20,243
2002	0.0119	1.0000	0.0119	203,320	1.3639	277,313	14,938	1.5099	20,243 22,549
2003	0.0065	1.0000	0.0065	213,793	1.3242	283,105	17,683	1.4515	25,667
2004	0.00117	1.0000	0.0088	211,427	1.2856	271,817	19,810	1.3957	27,648
2006	0.0066	1.0000	0.0079	188,506	1.2482	235,290	16,554	1.3420	22,215
2007	0.0079	1.0000	0.0079	244,565	1.2118	296,372	21,943	1.2904	28,315
2007			0.0071	,		,	,		
2008	0.0070 0.0070	1.0000 1.0000	0.0070	237,288	1.1765 1.1423	279,178	28,249	1.2407	35,049
				229,885		262,590	34,483	1.1930	41,139
2010	0.0063	1.0000	0.0063	243,590	1.1090	270,140	32,051	1.1471	36,767
2011 2012	0.0077 0.0073	1.0000 1.0000	0.0077 0.0073	232,086	1.0767 1.0453	249,886	32,086	1.1030 1.0606	35,391
	0.0073	1.0000		241,573 245.670		252,525	33,731		35,775
2013	0.0075	1.0000	0.0075	245,670	1.0149	249,328	34,646	1.0198	35,332
		Average Last 3	0.0075			250,580			35,500
	Avera	age: 2010-2012	0.0071			257,517			35,978
	Avera	age: 2008-2012	0.0070			262,864			36,824
	Avera	age: 2007-2011	0.0070			271,633			35,332
	Selected (Policy	y Year 2013/14)	0.0073			263,000			36,500

<sup>(2)</sup> From Pro Forma 9.

<sup>(3)</sup> Trended to January 1, 2014 using a 0% trend factor based on Pro Forma 9.

 $<sup>(4) = (2) \</sup>times (3)$ 

<sup>(5)</sup> From Pro Forma 9.

<sup>(6)</sup> Trended to January 1, 2014 using a 3.0% trend factor based on Pro Forma 9.

 $<sup>(7) = (5) \</sup>times (6)$ 

<sup>(8)</sup> From Pro Forma 9.

<sup>(9)</sup> Trended to January 1, 2014 using a 4.0% trend factor based on Pro Forma 9.

 $<sup>(10) = (8) \</sup>times (9)$ 



#### USTIF Loss Fund Experience at 6/30/2013 Summary Statistics - Frequency and Severity Trend Selections

(1) (2) (3) (6) (7) (9) (10) (11) **Ultimate Loss** Ultimate ALAE **Ultimate Claim Ultimate Loss** Ultimate ALAE Severity % Severity % **Policy Period** Number of Tanks **Ultimate Counts** Ultimate Claim Frequency Frequency % Change **Ultimate Losses** Severity Change Ultimate ALAE Severity Change 1994 170 16,100,000 94,706 2,350,000 13,824 1995 45,452 389 0.0086 49,982,266 128,489 35.7% 1,595,753 4,102 -70.3% 46 067 383 0.0083 -2 9% 63.650.636 166 190 29.3% 2.312.881 6.039 47.2% 1996 1997 42,738 433 0.0101 21.9% 78,337,891 180,919 8.9% 3,648,748 8,427 39.5% 1998 32,104 529 0.0165 62.6% 109,859,688 207,674 14.8% 7,000,000 13,233 57.0% 1999 31,880 574 0.0180 9.3% 131,357,414 228,846 10.2% 7,900,000 13,763 4.0% 2000 30.099 356 0.0118 -34.3% 79.570.010 223.511 -2.3% 5.100.000 14.326 4.1% 2001 29,539 333 0.0113 -4.7% 93,297,936 280 174 25.4% 5,293,985 15,898 11.0% 2002 29,215 349 0.0119 6.0% 76,573,964 219,410 -21.7% 4,500,000 12,894 -18.9% 2003 28,311 241 0.0085 -28.7% 49,000,000 203,320 -7.3% 3,600,000 14,938 15.9% 2004 27.310 319 0.0117 37.2% 68.200.000 213,793 5.2% 5.640.937 17.683 18.4% -24.9% 19.810 12.0% 2005 26.890 236 0.0088 49.896.809 211.427 -1.1% 4.675.064 2006 26,305 207 0.0079 -10.3% 39,020,687 188,506 -10.8% 3,426,647 16,554 -16.4% 2007 25,760 184 0.0071 -9.2% 45,000,000 244,565 29.7% 4,037,579 21,943 32.6% 2008 25,408 177 0.0070 -2.5% 42,000,000 237,288 -3.0% 5,000,000 28,249 28.7% 24,993 174 0.0070 -0.1% 40,000,000 229,885 -3.1% 6,000,000 34,483 2009 22 1% 156 38,000,000 243.590 5,000,000 32.051 2010 24,745 0.0063 -9.4% 6.0% -7.1% 2011 24,360 187 0.0077 21.8% 43,400,000 232,086 -4.7% 6,000,000 32,086 0.1% 178 0.0073 43,000,000 241,573 33,731 2012 24,358 -4.8% 4.1% 6,004,147 5.1% 2013 24,282 182 0.0075 2.6% 44,712,000 245,670 1.7% 6,305,628 34,646 2.7% Indicated Trend - Latest 10 years (Excl. 2013) -3.78% 2.08% 10.42% Indicated Trend - 2008 through 2012 1.95% 0.45% 2.87% Indicated Trend - Latest 3 years -1.19% 2.89% 3.91%

0.00%

Selected

4.00%

3.00%

<sup>(2)</sup> Provided by USTIF.

<sup>(2)</sup> Estimates for 2012 and 2013

<sup>(3)</sup> From Exhibit 7.

<sup>(4) = (3) / (2)</sup> 

<sup>(5)</sup> Period-over-Period change in (4).

<sup>(6)</sup> From Exhibit 2.

<sup>(7) = (6) / (3)</sup> 

<sup>(8)</sup> Period-over-Period change in (7).

<sup>(9)</sup> From Exhibit 8.

<sup>(10) = (9) / (3)</sup> 

<sup>(11)</sup> Period-over-Period change in (10).



#### USTIF Loss Fund Experience at 6/30/2013 Estimated Payment Pattern

(1) (2) (3) (4) (5) (6)

Maturity (Months)	Incremental Percentage Paid	Cumulative Percentage Paid	Maturity (Months)	Implied Incremental Percentage Paid	Interpolated Cumulative Percentage Paid
6	0.003	0.003	12	0.045	0.045
18	0.083	0.086	24	0.105	0.150
30	0.127	0.213	36	0.109	0.259
42	0.092	0.305	48	0.085	0.344
54	0.079	0.384	60	0.078	0.422
66	0.076	0.460	72	0.068	0.490
78	0.060	0.520	84	0.060	0.550
90	0.059	0.580	96	0.053	0.603
102	0.047	0.627	108	0.041	0.644
114	0.035	0.662	120	0.043	0.687
126	0.050	0.712	132	0.043	0.729
138	0.035	0.747	144	0.032	0.761
150	0.028	0.775	156	0.029	0.790
162	0.030	0.805	168	0.020	0.810
174	0.009	0.814	180	0.015	0.825
186	0.022	0.836	192	0.019	0.844
198	0.016	0.852	204	0.016	0.859
210	0.015	0.867	216	0.020	0.880
222	0.026	0.893	228	0.024	0.904
234	0.021	0.914	240	0.021	0.925
246	0.021	0.936	252	0.021	0.946
258	0.021	0.957	264	0.021	0.968
270	0.021	0.979	276	0.021	0.989
282	0.021	1.000	288	0.011	1.000

<sup>(2)</sup> Based on (3).

<sup>(3)</sup> From Pro Forma 11.

<sup>(5)</sup> Based on (6).

<sup>(6)</sup> Interpolated based on (3).



### USTIF Loss Fund Experience at 6/30/2013 Estimated Payment Pattern

								Paid	Loss & ALAE	Combined <sup>1</sup>											ated Ultimate s & ALAE <sup>2</sup>
Policy Period	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222		
1994 1996 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2011 2012	26,549 80,363 378,046 815,371 669,532 995,206 1,575,214 809,903 228,084 177,897 63,928 130,235 109,170 291,760 484,494 303,418 291,417 176,467 72,256 74,933	1,112,976 4,087,659 5,783,162 7,875,779 12,642,059 10,809,677 8,024,820 8,376,286 7,089,086 4,463,156 4,463,156 4,311,757 5,926,828 5,679,183 5,221,079 4,356,960 3,575,459 2,846,016	2,719,186 9,026,123 11,263,295 14,758,342 22,085,159 24,747,463 18,477,080 14,710,589 10,291,790 11,180,929 11,734,761 11,264,089 10,432,624 9,432,624 8,574,608	4,236,228 12,185,081 16,306,452 21,017,720 30,767,672 37,178,409 25,954,735 27,605,858 22,931,509 16,163,904 22,225,037 16,559,427 12,988,017 16,555,350 15,406,955 13,860,316 13,085,279	5,285,263 14,744,313 19,975,004 27,565,532 40,238,127 49,219,242 33,207,452 23,207,452 20,582,941 28,765,844 21,328,688 16,383,871 20,335,786 18,425,257 16,792,828	5,939,452 17,944,081 24,322,249 33,565,170 49,458,358 60,182,300 40,522,360 45,163,118 36,856,750 24,137,096 34,380,616 25,240,041 19,560,516 23,018,153 21,278,261	7,482,553 20,821,180 28,142,300 39,449,251 57,111,018 69,633,767 47,051,556 52,263,847 42,864,181 27,631,165 39,561,793 28,461,680 21,949,600 25,579,250	8,564,703 23,888,062 32,001,522 46,062,610 64,772,688 78,161,811 52,057,715 57,451,754 48,271,600 30,336,428 43,569,545 31,679,023 24,117,224	9,477,406 26,748,044 35,414,898 50,123,154 72,443,459 85,782,496 55,960,339 62,131,654 31,714,403 32,578,695 46,170,063 34,044,114	10,350,474 29,137,306 38,905,007 54,060,367 78,531,873 92,972,886 59,329,017 66,554,758 54,530,815 34,550,206 48,387,478	11,252,051 31,472,990 42,351,042 57,548,621 84,457,462 100,362,130 62,243,765 70,330,364 57,201,640 36,433,179	12,195,614 33,896,880 45,936,538 61,182,809 88,187,040 105,081,248 64,238,729 73,282,030 59,247,608	13,032,291 35,887,456 48,598,758 63,893,939 91,693,377 108,548,127 66,072,476 75,362,419	13,588,994 38,745,968 50,740,689 66,393,287 95,304,283 111,624,317 67,561,969	15,314,938 40,517,288 51,888,245 68,349,233 96,878,133 114,222,172	15,709,728 41,928,197 53,592,372 69,868,218 99,267,204	16,081,707 43,374,296 54,782,889 70,964,001	16,385,041 44,481,220 56,070,870	16,710,120 45,385,634	1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2011 2011 2012 2013	18,450,000 51,578,019 65,963,517 81,986,640 116,859,688 139,257,414 84,267,010 98,591,921 81,073,964 52,600,000 73,840,937 54,571,873 49,037,579 40,000,000 46,000,000 49,000,000 49,000,147 51,017,628
Policy Period	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222		
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2011 2012	0.001 0.002 0.006 0.010 0.006 0.007 0.019 0.003 0.003 0.001 0.002 0.003 0.006 0.010 0.007 0.007	0.060 0.079 0.088 0.096 0.108 0.078 0.085 0.087 0.085 0.087 0.069 0.069 0.121 0.121 0.121 0.101 0.072	0.147 0.175 0.171 0.180 0.189 0.178 0.217 0.187 0.181 0.196 0.151 0.206 0.207 0.239 0.240 0.227 0.213 0.174	0.230 0.236 0.247 0.256 0.263 0.267 0.307 0.280 0.283 0.307 0.303 0.303 0.303 0.303 0.308 0.338 0.328 0.301	0.286 0.286 0.303 0.336 0.344 0.353 0.392 0.375 0.369 0.391 0.390 0.391 0.396 0.415 0.392	0.322 0.348 0.369 0.409 0.423 0.432 0.479 0.458 0.455 0.466 0.463 0.461 0.469 0.453	0.406 0.404 0.427 0.481 0.500 0.556 0.530 0.529 0.525 0.525 0.521 0.522	0.464 0.463 0.485 0.562 0.554 0.561 0.615 0.583 0.595 0.577 0.590 0.581	0.514 0.519 0.537 0.611 0.620 0.616 0.630 0.638 0.619 0.625	0.561 0.565 0.590 0.659 0.672 0.668 0.701 0.675 0.673 0.657	0.610 0.610 0.642 0.702 0.723 0.721 0.735 0.713 0.706 0.693	0.661 0.657 0.696 0.746 0.755 0.755 0.759 0.743	0.706 0.696 0.737 0.779 0.785 0.779 0.780 0.764	0.737 0.751 0.769 0.810 0.816 0.802 0.798	0.830 0.786 0.787 0.834 0.829 0.820	0.851 0.813 0.812 0.852 0.849	0.872 0.841 0.831 0.866	0.888 0.862 0.850	0.906 0.880		
average last 4 avg last 3 avg Last 2 avg	0.005 0.003 0.002 0.001	0.088 0.086 0.077 0.065	0.193 0.213 0.204 0.193	0.286 0.318 0.311 0.303	0.361 0.389 0.391 0.379	0.431 0.461 0.461 0.461	0.496 0.524 0.520 0.519	0.554 0.579 0.580 0.574	0.601 0.627 0.623 0.625	0.643 0.665 0.662 0.656	0.685 0.712 0.704 0.699	0.723 0.747 0.744 0.737	0.753 0.777 0.775 0.772	0.783 0.806 0.805 0.800	0.814 0.817 0.828 0.825	0.836 0.832 0.838 0.851	0.852 0.852 0.846 0.848	0.867 0.867 0.856	0.893		
Prior Selected	0.004	0.090	0.213	0.303	0.384	0.448	0.500	0.569	0.613	0.657	0.704	0.740	0.769	0.790	0.807	0.827	0.846	0.880			
Selected	0.003	0.086	0.213	0.305	0.384	0.460	0.520	0.580	0.627	0.662	0.712	0.747	0.775	0.805	0.814	0.836	0.852	0.867	0.893		

Based on Exhibit 13 and Exhibit 15.
 From Pro Forma 12



#### USTIF Loss Fund Experience at 6/30/2013 Summary of Estimated Ultimate Loss & ALAE

(1) (2) (3)

Policy Period	Estimated Ultimate Loss	Estimated Ultimate ALAE	Estimated Ultimate Loss & ALAE
1994	16,100,000	2,350,000	18,450,000
1995	49,982,266	1,595,753	51,578,019
1996	63,650,636	2,312,881	65,963,517
1997	78,337,891	3,648,748	81,986,640
1998	109,859,688	7,000,000	116,859,688
1999	131,357,414	7,900,000	139,257,414
2000	79,570,010	5,100,000	84,670,010
2001	93,297,936	5,293,985	98,591,921
2002	76,573,964	4,500,000	81,073,964
2003	49,000,000	3,600,000	52,600,000
2004	68,200,000	5,640,937	73,840,937
2005	49,896,809	4,675,064	54,571,873
2006	39,020,687	3,426,647	42,447,334
2007	45,000,000	4,037,579	49,037,579
2008	42,000,000	5,000,000	47,000,000
2009	40,000,000	6,000,000	46,000,000
2010	38,000,000	5,000,000	43,000,000
2011	43,400,000	6,000,000	49,400,000
2012	43,000,000	6,004,147	49,004,147
2013	44,712,000	6,305,628	51,017,628
Total	1,200,959,303	95,391,369	1,296,350,672

<sup>(2)</sup> From Exhibit 2

<sup>(3)</sup> From Exhibit 8

<sup>(4) = (2) + (3)</sup> 



## USTIF Loss Fund Experience at 6/30/2013 Paid Loss & ALAE

(1) (2) (3)

			Paid Loss & ALAE
Policy Period	Paid Loss	Paid ALAE	Combined
1994	14,717,050	2,243,806	16,960,856
1995	44,174,078	1,211,556	45,385,634
1996	54,500,935	1,569,935	56,070,870
1997	68,349,730	2,614,271	70,964,001
1998	94,098,293	5,168,911	99,267,204
1999	108,943,899	5,278,273	114,222,172
2000	64,457,740	3,104,229	67,561,969
2001	72,723,966	2,638,453	75,362,419
2002	57,084,147	2,163,461	59,247,608
2003	34,739,575	1,693,604	36,433,179
2004	45,878,641	2,508,837	48,387,478
2005	32,029,453	2,014,661	34,044,114
2006	22,905,540	1,211,684	24,117,224
2007	24,325,300	1,253,950	25,579,250
2008	19,898,848	1,379,413	21,278,261
2009	15,379,563	1,413,265	16,792,828
2010	12,273,389	811,890	13,085,279
2011	7,776,653	797,955	8,574,608
2012	2,506,650	339,366	2,846,016
2013	55,803	19,130	74,933
Total	796,819,253	39,436,650	836,255,903

<sup>(2)</sup> From Exhibit 25

<sup>(3)</sup> From Exhibit 25

<sup>(4) = (2) + (3)</sup> 



#### **USTIF Loss Fund Experience at 6/30/2013 Estimated Unpaid Loss**

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Estimated Ultimate					
Policy Period	Loss	Paid Loss	Case Reserve	Case Incurred Loss	Estimated IBNR	Estimated Unpaid Loss
1994	16,100,000	14,717,050	594,711	15,311,761	788,239	1,382,950
1995	49,982,266	44,174,078	3,506,319	47,680,397	2,301,869	5,808,188
1996	63,650,636	54,500,935	5,349,234	59,850,169	3,800,467	9,149,701
1997	78,337,891	68,349,730	3,491,780	71,841,510	6,496,381	9,988,161
1998	109,859,688	94,098,293	5,019,624	99,117,917	10,741,771	15,761,395
1999	131,357,414	108,943,899	7,673,367	116,617,266	14,740,148	22,413,515
2000	79,570,010	64,457,740	4,544,850	69,002,590	10,567,420	15,112,270
2001	93,297,936	72,723,966	7,312,098	80,036,064	13,261,872	20,573,970
2002	76,573,964	57,084,147	7,254,517	64,338,664	12,235,300	19,489,817
2003	49,000,000	34,739,575	5,326,902	40,066,477	8,933,523	14,260,425
2004	68,200,000	45,878,641	8,692,840	54,571,481	13,628,519	22,321,359
2005	49,896,809	32,029,453	6,059,773	38,089,226	11,807,583	17,867,356
2006	39,020,687	22,905,540	5,026,730	27,932,270	11,088,417	16,115,147
2007	45,000,000	24,325,300	4,228,030	28,553,330	16,446,670	20,674,700
2008	42,000,000	19,898,848	5,287,866	25,186,714	16,813,286	22,101,152
2009	40,000,000	15,379,563	6,186,163	21,565,726	18,434,274	24,620,437
2010	38,000,000	12,273,389	8,458,262	20,731,651	17,268,349	25,726,611
2011	43,400,000	7,776,653	11,119,495	18,896,148	24,503,852	35,623,347
2012	43,000,000	2,506,650	12,737,282	15,243,932	27,756,068	40,493,350
1/1/2013-6/30/2013	22,356,000 1	55,803	9,469,197	9,525,000	12,831,000	22,300,197
Total	1,178,603,303	796,819,253	127,339,040	924,158,293	254,445,010	381,784,050

<sup>(2)</sup> From Exhibit 2

<sup>(3)</sup> From Exhibit 25

<sup>(4)</sup> From Exhibit 25

<sup>(5) = (3) + (4)</sup> 

<sup>(6) = (2) - (5)</sup> 

<sup>(7) = (4) + (6)</sup> 

 $<sup>^{1}</sup>$  2013 estimate from Exhibit 2 multiplied by 50% to estimate the ultimate loss for 1/1/13-6/30/13.



#### USTIF Loss Fund Experience at 6/30/2013 Estimated Unpaid ALAE

(1) (2) (3)

Policy Period	Estimated Ultimate ALAE	Paid ALAE	Estimated Unpaid ALAE
1994	2,350,000	2,243,806	106,194
1995	1,595,753	1,211,556	384,197
1996	2,312,881	1,569,935	742,946
1997	3,648,748	2,614,271	1,034,477
1998	7,000,000	5,168,911	1,831,089
1999	7,900,000	5,278,273	2,621,727
2000	5,100,000	3,104,229	1,995,771
2001	5,293,985	2,638,453	2,655,532
2002	4,500,000	2,163,461	2,336,539
2003	3,600,000	1,693,604	1,906,396
2004	5,640,937	2,508,837	3,132,100
2005	4,675,064	2,014,661	2,660,403
2006	3,426,647	1,211,684	2,214,963
2007	4,037,579	1,253,950	2,783,629
2008	5,000,000	1,379,413	3,620,587
2009	6,000,000	1,413,265	4,586,735
2010	5,000,000	811,890	4,188,110
2011	6,000,000	797,955	5,202,045
2012	6,004,147	339,366	5,664,781
1/1/2013-6/30/2013	3,152,814	19,130	3,133,684
Total	92,238,555	39,436,650	52,801,905

<sup>(2)</sup> From Exhibit 8

<sup>(3)</sup> From Exhibit 25

<sup>(4) = (2) - (3)</sup> 

<sup>&</sup>lt;sup>1</sup> 2013 estimate from Exhibit 8 multiplied by 50% to estimate the ultimate ALAE for 1/1/13-6/30/13.



#### USTIF Loss Fund Experience at 6/30/2013 Estimated Ultimate Loss

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
				Ultimate Los	s Indications		

			Incurred Loss Loss Development	Paid Loss Loss Development	Incurred Loss	Paid Loss	
Policy Period	Paid Loss	Incurred Loss	Method	Method	Cape Cod Method	Cape Cod Method	Selected Ultimate Loss
1994	14,717,050	15,311,761	16,007,750	15,855,784	16,453,526	16,592,757	16,100,000
1995	44,174,078	47,680,397	50,445,860	48,591,486	51,145,798	49,893,385	49,982,266
1996	54,500,935	59,850,169	64,081,337	61,210,000	64,227,294	61,755,728	63,650,636
1997	68,349,730	71,841,510	77,843,462	78,682,671	77,977,799	78,847,633	78,337,891
1998	94,098,293	99,117,917	108,687,443	111,031,934	108,196,012	109,969,954	109,859,688
1999	108,943,899	116,617,266	129,410,815	132,405,583	128,271,180	130,101,562	131,357,414
2000	64,457,740	69,002,590	77,491,421	80,689,251	77,358,215	80,041,705	79,570,010
2001	72,723,966	80,036,064	91,410,252	94,314,381	89,300,579	90,059,053	93,297,936
2002	57,084,147	64,338,664	74,804,720	76,770,547	76,209,582	79,233,675	76,573,964
2003	34,739,575	40,066,477	47,562,411	48,962,649	47,100,519	48,646,216	49,000,000
2004	45,878,641	54,571,481	66,400,647	68,218,695	65,391,708	67,301,249	68,200,000
2005	32,029,453	38,089,226	47,550,608	50,483,360	47,181,323	50,189,470	49,896,809
2006	22,905,540	27,932,270	35,916,779	38,629,852	36,961,180	41,080,194	39,020,687
2007	24,325,300	28,553,330	38,734,716	45,331,802	38,248,439	43,373,774	45,000,000
2008	19,898,848	25,186,714	36,559,387	42,274,411	36,407,178	41,407,541	42,000,000
2009	15,379,563	21,565,726	32,649,443	38,227,816	33,757,524	39,802,422	40,000,000
2010	12,273,389	20,731,651	32,956,030	38,133,793	32,854,484	37,709,656	38,000,000
2011	7,776,653	18,896,148	33,042,049	35,035,332	35,825,736	43,407,275	43,400,000
2012	2,506,650	15,243,932	27,455,409	25,183,267	32,242,798	42,761,342	43,000,000
2013	55,803	9,525,000	34,310,408	33,637,768	38,742,402	47,286,133	44,712,000
Total	796,819,253	924,158,293	1,123,320,947	1,163,670,380	1,133,853,276	1,199,460,726	1,200,959,303

<sup>(2) &</sup>amp; (3) From Exhibit 25

<sup>(4)</sup> From Exhibit 3

<sup>(5)</sup> From Exhibit 4

<sup>(6)</sup> From Exhibit 5

<sup>(7)</sup> From Exhibit 6

<sup>(8)</sup> Selected judgmentally.

<sup>(8)</sup> Considers data treatment of Post Remedial Care (PRC) costs. See the text for more details and Exhibit 29 for a data summary.



#### **USTIF Loss Fund Experience at 6/30/2013** Incurred Loss Development

(1) (2) (3) (4)

	Cumulative Incurred Loss								
Policy Period	Incurred Loss	Development Factor	Estimated Ultimate Loss						
1994	15,311,761	1.045	16,007,750						
1995	47,680,397	1.058	50,445,860						
1996	59,850,169	1.071	64,081,337						
1997	71,841,510	1.084	77,843,462						
1998	99,117,917	1.097	108,687,443						
1999	116,617,266	1.110	129,410,815						
2000	69,002,590	1.123	77,491,421						
2001	80,036,064	1.142	91,410,252						
2002	64,338,664	1.163	74,804,720						
2003	40,066,477	1.187	47,562,411						
2004	54,571,481	1.217	66,400,647						
2005	38,089,226	1.248	47,550,608						
2006	27,932,270	1.286	35,916,779						
2007	28,553,330	1.357	38,734,716						
2008	25,186,714	1.452	36,559,387						
2009	21,565,726	1.514	32,649,443						
2010	20,731,651	1.590	32,956,030						
2011	18,896,148	1.749	33,042,049						
2012	15,243,932	1.801	27,455,409						
2013	9,525,000	3.602	34,310,408						
Total	924,158,293		1,123,320,947						

<sup>(2)</sup> From Exhibit 25(3) From Exhibit 11

 $<sup>(4) = (2) \</sup>times (3)$ 



## USTIF Loss Fund Experience at 6/30/2013 Paid Loss Development Method

(1) (2) (3)

		<b>Cumulative Paid Loss</b>	
Policy Period	Paid Loss	<b>Development Factor</b>	Estimated Ultimate Loss
1994	14,717,050	1.077	15,855,784
1995	44,174,078	1.100	48,591,486
1996	54,500,935	1.123	61,210,000
1997	68,349,730	1.151	78,682,671
1998	94,098,293	1.180	111,031,934
1999	108,943,899	1.215	132,405,583
2000	64,457,740	1.252	80,689,251
2001	72,723,966	1.297	94,314,381
2002	57,084,147	1.345	76,770,547
2003	34,739,575	1.409	48,962,649
2004	45,878,641	1.487	68,218,695
2005	32,029,453	1.576	50,483,360
2006	22,905,540	1.686	38,629,852
2007	24,325,300	1.864	45,331,802
2008	19,898,848	2.124	42,274,411
2009	15,379,563	2.486	38,227,816
2010	12,273,389	3.107	38,133,793
2011	7,776,653	4.505	35,035,332
2012	2,506,650	10.047	25,183,267
2013	55,803	602.795	33,637,768
Total	796,819,253		1,163,670,380

<sup>(2)</sup> From Exhibit 25

<sup>(3)</sup> From Exhibit 11

 $<sup>(4) = (2) \</sup>times (3)$ 



USTIF Loss Fund Experience at 6/30/2013 Generalized Cape Cod Method - Reported Loss

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period	Ultimate Claim Counts	Trend Index	Age-to-Ulimate LDF (Reported Loss)	Portion of Ultimate Loss Reported	Cumulative Reported Loss at 6/30/2013	Trended Developed Loss to Exposure Ratio	Trended Expected Loss to Exposure Ratio	Expected Ultimate Loss	Estimated IBNR Losses	Estimated Ultimate Indemnity Losses
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	170 389 383 433 529 574 356 333 349 241 319 236 207 184 177 174 156 187 178 182	2.038 1.969 1.902 1.838 1.776 1.716 1.658 1.602 1.460 1.411 1.363 1.317 1.272 1.229 1.188 1.148 1.109 1.071 1.035 1.000	1.045 1.058 1.071 1.084 1.097 1.110 1.123 1.142 1.163 1.187 1.217 1.248 1.286 1.357 1.452 1.514 1.590 1.749 1.801 3.602	95.7% 94.5% 93.4% 92.3% 91.2% 90.1% 89.0% 87.6% 86.0% 84.2% 82.2% 80.1% 77.8% 63.9% 66.1% 62.9% 57.2% 55.5% 27.8%	15,311,761 47,680,397 59,850,169 71,841,510 99,117,917 116,617,266 69,002,590 80,036,064 64,338,664 40,066,477 54,571,481 38,089,226 27,932,270 28,553,330 25,186,714 21,565,726 20,731,651 18,896,148 15,243,932 9,525,000	191,891 255,334 318,291 330,435 364,867 366,838 360,856 439,684 312,930 278,388 283,690 265,318 220,754 258,776 245,317 215,322 234,224 189,281 159,642 188,519	314,795 319,959 329,271 337,831 346,130 352,379 355,194 358,132 354,935 261,234 259,494 254,963 249,630 246,417 242,034 236,848 232,278 226,528 222,229	26,260,601 63,213,696 66,291,868 79,585,769 103,105,933 117,883,043 76,275,437 74,455,574 84,845,787 44,631,662 60,737,172 45,694,671 40,614,813 36,884,694 36,070,085 35,913,529 32,682,269 39,544,196 38,219,031 40,445,612	1,141,765 3,465,401 4,377,125 6,136,289 9,078,095 11,653,914 8,355,625 9,264,515 11,870,918 7,034,042 10,820,227 9,092,097 9,028,910 9,695,109 11,220,464 12,191,798 12,122,833 16,929,588 16,998,866 29,217,402	16,453,526 51,145,798 64,227,294 77,977,799 108,196,012 128,271,180 77,358,215 89,300,579 76,209,582 47,100,519 65,391,708 47,181,323 36,961,180 38,248,439 36,407,178 33,757,524 32,854,484 35,825,736 32,242,798 38,742,402
Control  Notes (2) (4) (5) (6) (7) (3) (3) (3) (8) (8) (9) (10) (11)	5,757  From Exhibit 7 From Exhibit 11 1.0 ÷ (4) From Exhibit 25 [(6)*(3) ÷ ((2)*(5)]  Trend Rate = ILF \$1.5mln to \$1mln = The annual aggregate loss CC Decay Factor = Separate calculations are p (8) × ((2) ÷ (3)) (9) × (1 - (5)) (6) + (10)	0.80	•		924,158,293					



USTIF Loss Fund Experience at 6/30/2013 Generalized Cape Cod Method - Paid Loss

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period	Ultimate Claim Counts	Trend Index	Age-to-Ulimate LDF (Paid Loss)	Portion of Ultimate Loss Paid	Cumulative Paid Loss at 6/30/2013	Trended Developed Loss to Exposure Ratio	Trended Expected Loss to Exposure Ratio	Expected Ultimate Loss	Estimated Unpaid Loss	Estimated Ultimate Loss
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	170 389 383 433 529 574 356 333 349 241 319 236 207 184 177 174 156 187 178	2.038 1.969 1.902 1.838 1.776 1.716 1.658 1.602 1.460 1.411 1.363 1.317 1.272 1.229 1.188 1.148 1.109 1.071 1.035 1.000	1.077 1.100 1.123 1.151 1.180 1.215 1.252 1.297 1.345 1.409 1.487 1.576 1.686 1.864 2.124 2.486 3.107 4.505 10.047 602.795	92.8% 90.9% 89.0% 86.9% 84.7% 82.3% 79.9% 77.1% 67.3% 63.4% 59.3% 53.7% 47.19 40.2% 32.2% 22.2% 10.0% 0.2%		190,069 245,948 304,029 333,997 372,738 395,790 375,747 453,653 321,154 286,584 291,458 281,682 237,430 302,850 283,665 252,111 271,023 200,699 146,431 184,823	313,079 318,433 328,760 339,329 349,362 356,922 360,757 364,241 361,336 280,208 279,489 277,196 274,429 274,621 272,675 269,485 266,578 262,340 259,939	26,117,442 62,912,375 66,188,935 79,938,812 104,068,655 119,402,886 77,470,206 75,725,640 86,375,944 47,873,337 65,417,136 49,679,381 44,649,599 41,106,399 40,636,624 40,862,318 37,508,360 45,795,715 44,704,404 47,308,812	1,875,707 5,719,307 7,254,793 10,497,903 15,871,661 21,157,663 15,583,965 17,335,087 22,149,528 13,906,641 21,422,608 18,160,017 18,174,654 19,048,474 21,508,693 24,422,859 25,436,267 35,630,622 40,254,692 47,230,330	16,592,757 49,893,385 61,755,728 78,847,633 109,969,954 130,101,562 80,041,705 90,059,053 79,233,675 48,646,216 67,301,249 50,189,470 41,080,194 43,373,774 41,407,541 39,802,422 37,709,656 43,407,275 42,761,342 47,286,133
Total Control  Notes (2) (4) (5) (6) (7) (3) (3) (8) (8) (9) (10) (11)	5,757 5,757 5,757 From Exhibit 7 From Exhibit 11 1.0 ÷ (4) From Exhibit 25 [(6)*(3) ÷ ((2)*(5)] Trend Rate = ILF \$1.5mln to \$1mln = CC Decay Factor = Separate calculations are p (8) × ((2) ÷ (3)) (9) × (1 - (5)) (6) + (10)	3.50% 1.06 0.80 erformed for each pe	riod (before 2003, after 200	02)	796,819,253 796,819,253			1,203,742,979	402,641,473	1,199,460,726



#### USTIF Loss Fund Experience at 6/30/2013 Estimated Ultimate Number of Claims

(1) (2) (3)

Policy Period	Reported Claim Counts	Cumulative Reported Claim Count Development Factor	Estimated Ultimate Claims Counts
1994	170	1.000	170
1995	389	1.000	389
1996	383	1.000	383
1997	433	1.000	433
1998	529	1.000	529
1999	574	1.000	574
2000	356	1.000	356
2001	333	1.000	333
2002	349	1.000	349
2003	241	1.000	241
2004	319	1.000	319
2005	236	1.000	236
2006	207	1.000	207
2007	184	1.000	184
2008	177	1.000	177
2009	174	1.000	174
2010	156	1.000	156
2011	187	1.000	187
2012	178	1.000	178
2013	91	2.000	182
Total	5,666		5,757

<sup>(2)</sup> From Exhibit 27

<sup>(3)</sup> From Exhibit 11

 $<sup>(4) = (2) \</sup>times (3)$ 



#### USTIF Loss Fund Experience at 6/30/2013 Estimated Ultimate ALAE

(1)	(2)	(3)	(4)	(5)	(6)	(7)
		Ultimate ALAE Indica	ations			

Policy Period	Paid ALAE	Paid ALAE Development Method	Paid ALAE Cape Cod Method	Selected Ultimate ALAE	Estimated Ultimate Loss	Estimated ALAE Ratio
1994	2,243,806	2,367,215	2,308,283	2,350,000	16,100,000	0.146
1995	1,211,556	1,344,827	1,595,753	1,595,753	49,982,266	0.032
1996	1,569,935	1,794,907	2,194,752	2,312,881	63,650,636	0.036
1997	2,614,271	3,138,341	3,648,748	3,648,748	78,337,891	0.047
1998	5,168,911	6,515,352	6,981,686	7,000,000	109,859,688	0.064
1999	5,278,273	7,052,393	7,942,391	7,900,000	131,357,414	0.060
2000	3,104,229	4,437,948	5,050,843	5,100,000	79,570,010	0.064
2001	2,638,453	4,036,097	5,293,985	5,293,985	93,297,936	0.057
2002	2,163,461	3,574,251	4,529,889	4,500,000	76,573,964	0.059
2003	1,693,604	3,077,801	3,647,300	3,600,000	49,000,000	0.073
2004	2,508,837	5,152,044	5,640,937	5,640,937	68,200,000	0.083
2005	2,014,661	4,675,064	4,581,085	4,675,064	49,896,809	0.094
2006	1,211,684	3,205,382	3,426,647	3,426,647	39,020,687	0.088
2007	1,253,950	3,814,771	4,037,579	4,037,579	45,000,000	0.090
2008	1,379,413	4,825,923	4,170,238	5,000,000	42,000,000	0.119
2009	1,413,265	5,883,783	4,268,497	6,000,000	40,000,000	0.150
2010	811,890	4,596,943	3,779,883	5,000,000	38,000,000	0.132
2011	797,955	7,002,967	4,481,134	6,000,000	43,400,000	0.138
2012	339,366	6,999,062	4,296,235	6,004,147	43,000,000	0.140
2013	19,130	7,890,717	4,374,596	6,305,628	44,712,000	0.141
Total	39,436,650	91,385,787	86,250,461	95,391,369	1,200,959,303	

<sup>(2)</sup> From Exhibit 25

<sup>(3)</sup> From Exhibit 9

<sup>(4)</sup> From Exhibit 10

<sup>(5)</sup> Judgmentally Selected

<sup>(6)</sup> From Exhibit 2

 $<sup>(7) = (5) \</sup>div (6)$ 



## USTIF Loss Fund Experience at 6/30/2013 Paid ALAE Development Method

(1) (2) (3)

		Cumulative Development	
Policy Period	Paid ALAE	Factor	Estimated Ultimate ALAE
1994	2,243,806	1.055	2,367,215
1995	1,211,556	1.110	1,344,827
1996	1,569,935	1.143	1,794,907
1997	2,614,271	1.200	3,138,341
1998	5,168,911	1.260	6,515,352
1999	5,278,273	1.336	7,052,393
2000	3,104,229	1.430	4,437,948
2001	2,638,453	1.530	4,036,097
2002	2,163,461	1.652	3,574,251
2003	1,693,604	1.817	3,077,801
2004	2,508,837	2.054	5,152,044
2005	2,014,661	2.321	4,675,064
2006	1,211,684	2.645	3,205,382
2007	1,253,950	3.042	3,814,771
2008	1,379,413	3.499	4,825,923
2009	1,413,265	4.163	5,883,783
2010	811,890	5.662	4,596,943
2011	797,955	8.776	7,002,967
2012	339,366	20.624	6,999,062
2013	19,130	412.479	7,890,717
Total	39,436,650		91,385,787

<sup>(2)</sup> From Exhibit 25

<sup>(3)</sup> From Exhibit 11

 $<sup>(4) = (2) \</sup>times (3)$ 



USTIF Loss Fund Experience at 6/30/2013 Generalized Cape Cod Method - Paid ALAE

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Policy Period	Ultimate Loss	Trend Index	Age-to-Ulimate LDF (Paid ALAE)	Portion of Ultimate Expense Paid	Cumulative Paid ALAE at 6/30/2013	Trended Developed ALAE to Exposure Ratio	Trended Expected ALAE to Exposure Ratio	Expected Ultimate ALAE	Estimated Unpaid ALAE	Estimated Ultimate ALAE
1994	16,100,000	1.133	1.055	94.8%	2,243,806	0.167	0.087	1,236,795	64,477	2,308,283
1995	49,982,266	1.123	1.110	90.1%		0.030	0.087	3,876,893	384,197	1,595,753
1996	63,650,636	1.112	1.143	87.5%		0.031	0.087	4,985,018	624,817	2,194,752
1997	78,337,891	1.101	1.200	83.3%		0.044	0.087	6,194,867	1,034,477	3,648,748
1998	109,859,688	1.091	1.260	79.3%	, ,	0.065	0.087	8,771,918	1,812,775	6,981,686
1999	131,357,414	1.080	1.336	74.8%		0.058	0.087	10,590,267	2,664,118	7,942,391
2000	79,570,010	1.070	1.430	69.9%		0.060	0.087	6,477,357	1,946,614	5,050,843
2001	93,297,936	1.059	1.530	65.4%	, ,	0.046	0.087	7,668,609	2,655,532	5,293,985
2002	76,573,964	1.112	1.652	60.5%		0.052	0.087	5,995,369	2,366,428	4,529,889
2003	49,000,000	1.101	1.817	55.0%		0.069	0.098	4,344,098	1,953,696	3,647,300
2004	68,200,000	1.091	2.054	48.7%		0.082	0.098	6,104,978	3,132,100	5,640,937
2005	49,896,809	1.080	2.321	43.1%		0.101	0.098	4,509,917	2,566,424	4,581,085
2006	39,020,687	1.070	2.645	37.8%		0.088	0.098	3,561,122	2,214,963	3,426,647
2007	45,000,000	1.060	3.042	32.9%		0.090	0.098	4,146,680	2,783,629	4,037,579
2008	42,000,000	1.049	3.499	28.6%		0.121	0.098	3,907,810	2,790,825	4,170,238
2009	40,000,000	1.039	4.163	24.0%		0.153	0.098	3,757,857	2,855,232	4,268,497
2010	38,000,000	1.029	5.662	17.7%		0.125	0.098	3,604,624	2,967,993	3,779,883
2011	43,400,000	1.020	8.776	11.4%		0.165	0.098	4,156,830	3,683,179	4,481,134
2012	43,000,000	1.010	20.624	4.8%		0.164	0.098	4,158,503	3,956,869	4,296,235
2013	44,712,000	1.000	412.479	0.2%	,	0.176	0.098	4,366,051	4,355,466	4,374,596
Total	1,200,959,303				39,436,650			102,415,563	46,813,811	86,250,461
Control	1,200,959,303				39,436,650			102,415,503	40,613,611	60,230,401
Notes (2) (4) (5) (6) (7)	Selected exposure proxy; value From Exhibit 11 1.0 ÷ (4) Exhibit 25 [(6)*(3) ÷ (2)*(5)]	es from Exhibit 2								
(3) (3) (8) (8) (9) (10) (11)	ALAE-to-Loss Trend Rate =  ILF \$1.5mln to \$1mln =  CC Decay Factor =  Separate calculations are perfo (8) × ((2) ÷ (3)) (9) × (1 - (5)) (6) + (10)	1.0% 1.06 1.00 ormed for each perio	d (before 2003, after 20	002)						



#### USTIF Loss Fund Experience at 6/30/2013 Summary of Development Factors

(1) (2) (3) (4) (5)

			Cumulative De	velopment Factors	
Policy Period	Age at 6/30/2013	Reported Loss	Paid Loss	Rptd Claim Count	Paid ALAE
1994	234	1.045	1.077	1.000	1.055
1995	222	1.058	1.100	1.000	1.110
1996	210	1.071	1.123	1.000	1.143
1997	198	1.084	1.151	1.000	1.200
1998	186	1.097	1.180	1.000	1.260
1999	174	1.110	1.215	1.000	1.336
2000	162	1.123	1.252	1.000	1.430
2001	150	1.142	1.297	1.000	1.530
2002	138	1.163	1.345	1.000	1.652
2003	126	1.187	1.409	1.000	1.817
2004	114	1.217	1.487	1.000	2.054
2005	102	1.248	1.576	1.000	2.321
2006	90	1.286	1.686	1.000	2.645
2007	78	1.357	1.864	1.000	3.042
2008	66	1.452	2.124	1.000	3.499
2009	54	1.514	2.486	1.000	4.163
2010	42	1.590	3.107	1.000	5.662
2011	30	1.749	4.505	1.000	8.776
2012	18	1.801	10.047	1.000	20.624
2013	6	3.602	602.795	2.000	412.479

- (3) From Exhibit 12
- (4) From Exhibit 13
- (5) From Exhibit 14
- (6) From Exhibit 15



#### USTIF Loss Fund Experience at 6/30/2013

#### Incurred Development - Loss

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Months 6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994	2,293,319	9,483,332	8,899,568	8,587,163	7,930,656	8,314,481	10,736,650	11,535,278	12,987,106	13,420,047	13,621,686	13,783,936	13,918,876	14,149,757	14,804,757	14,850,393	15,046,887	15,204,018	15,404,798	15,311,761
1995	8,613,250	16,098,768	18,298,725	19,905,459	21,046,453	24,235,853	30,196,463	33,211,371	35,802,138	37,475,351	38,358,906	40,998,671	42,354,370	44,963,740	46,000,516	45,651,955	46,508,480	47,133,584	47,680,397	
1996	8,936,404	23,368,929	25,913,942	27,625,579	30,510,919	36,563,786	40,301,207	44,222,184	48,484,299	49,507,709	52,006,708	54,189,892	55,975,467	57,184,645	57,091,549	58,369,113	59,219,253	59,850,169		
1997	12,183,729	27,861,716	28,259,518	36,177,302	42,526,638	47,668,066	57,301,838	61,349,601	64,189,876	65,467,840	67,806,573	68,583,281	70,477,256	71,766,471	72,414,114	72,038,696	71,841,510			
1998	19,943,710	35,996,986	41,851,859	51,656,812	60,571,036	68,716,024	78,270,421	83,788,081	88,194,303	92,675,198	93,892,790	94,387,396	96,041,089	97,415,284	98,289,793	99,117,917				
1999	26,009,771	42,286,868	52,273,156	65,412,219	83,690,530	93,546,446	96,396,129	101,152,488	107,169,674	109,940,818	112,281,362	113,503,042	115,006,533	116,114,764	116,617,266					
2000	18,092,663	31,208,525	39,242,788	46,202,717	53,727,961	60,561,432	62,671,231	64,115,685	64,428,489	65,452,269	66,893,820	68,463,377	68,437,679	69,002,590						
2001 2002	16,125,130 27,341,744	42,623,490 41,824,436	49,903,528 43,658,109	54,128,193 46,933,913	60,019,616 51,841,755	65,645,806 55,112,330	69,282,911 56,245,550	70,125,237 59,407,302	73,221,447 61,309,632	75,070,881 62,084,385	76,907,829 63,968,298	79,654,357 64,338,664	80,036,064							
2002	11,730,000	24,991,591	29,680,371	30,587,380	32,048,460	32,270,718	34,380,712	36,594,209	38,197,103	39,113,273	40,066,477	64,338,664								
2004	21.620.000	40.404.425	40.479.491	48.636.015	47.958.998	47,745,263	51.467.210	54.715.996	54.065.009	54,571,481	40,000,477									
2005	13,735,000	30,634,789	29,431,767	29,602,249	32,601,798	33,741,333	35,239,796	36,736,479	38,089,226	34,371,401										
2006	11.575.000	22.574.518	20.831.916	22.126.220	23.345.645	24.336.754	27.160.957	27.932.270	00,000,220											
2007	9,955,000	20,225,486	20,703,206	24,435,623	26,181,452	27,704,644	28,553,330													
2008	10,485,000	19,577,437	22,432,876	23,522,269	24,498,073	25,186,714														
2009	11,665,000	22,256,756	21,488,761	20,690,691	21,565,726															
2010	9,333,000	17,533,011	17,450,938	20,731,651																
2011	9,010,000	20,274,379	18,896,148																	
2012	9,061,000	15,243,932																		
2013	9,525,000																			
Policy Period	6 to 18	18 to 30	30 to 42	42 to 54	54 to 66	66 to 78	78 to 90	90 to 102	102 to 114	114 to 126	126 to 138	138 to 150	150 to 162	162 to 174	174 to 186	186 to 198	198 to 210	210 to 222	222 to 234	
1994	4.135	0.938	0.965	0.924	1.048	1.291	1.074	1.126	1.033	1.015	1.012	1.010	1.017	1.046	1.003	1.013	1.010	1.013	0.994	
1995	1.869	1.137	1.088	1.057	1.152	1.246	1.100	1.078	1.047	1.024	1.069	1.033	1.062	1.023	0.992	1.019	1.013	1.012		
1996	2.615	1.109	1.066	1.104	1.198	1.102	1.097	1.096	1.021	1.050	1.042	1.033	1.022	0.998	1.022	1.015	1.011			
1997	2.287	1.014	1.280	1.176	1.121	1.202	1.071	1.046	1.020	1.036	1.011	1.028	1.018	1.009	0.995	0.997				
1998	1.805	1.163	1.234	1.173	1.134	1.139	1.070	1.053	1.051	1.013	1.005	1.018	1.014	1.009	1.008					
1999	1.626	1.236	1.251	1.279	1.118	1.030	1.049	1.059	1.026	1.021	1.011	1.013	1.010	1.004						
2000 2001	1.725 2.643	1.257 1.171	1.177	1.163 1.109	1.127	1.035 1.055	1.023	1.005 1.044	1.016 1.025	1.022	1.023	1.000	1.008							
2001	1.530	1.044	1.085	1.109	1.094	1.055	1.012	1.044	1.025	1.024	1.036	1.005								
2002	2.131	1.188	1.031	1.048	1.003	1.065	1.064	1.044	1.024	1.024	1.000									
2004	1.869	1.002	1.201	0.986	0.996	1.078	1.063	0.988	1.009	1.024										
2005	2.230	0.961	1.006	1.101	1.035	1.044	1.042	1.037												
2006	1.950	0.923	1.062	1.055	1.042	1.116	1.028													
2007	2.032	1.024	1.180	1.071	1.058	1.031														
2008	1.867	1.146	1.049	1.041	1.028															
2009	1.908	0.965	0.963	1.042																
2010	1.879	0.995	1.188																	
2011 2012	2.250 1.682	0.932																		
2012	1.002																			
3 yr. Weighted Avg.	1.936	0.963	1.058	1.052	1.043	1.060	1.048	1.018	1.014	1.027	1.023	1.007	1.011	1.007	1.008	1.009	1.012			
3 yr. Simple Avg.	1.937	0.964	1.066	1.052	1.043	1.064	1.045	1.023	1.015	1.026	1.022	1.006	1.011	1.007	1.009	1.010	1.012			
6 yr. Weighted Avg.	1.934	0.995	1.066	1.042	1.023	1.055	1.043	1.024	1.020	1.022	1.015	1.015	1.018	1.009						
5 yr. Simple Avg.	1.917	1.012	1.088	1.062	1.032	1.067	1.051	1.029	1.017	1.024	1.016	1.013	1.014	1.009	1.004					
All yr. Simple Avg.	2.107	1.067	1.112	1.090	1.081	1.104	1.058	1.051	1.026	1.026	1.024	1.017	1.021	1.015	1.004	1.011	1.012	1.012	0.994	
All yr. Weighted Avg.	1.958	1.083	1.130	1.115	1.088	1.083	1.054	1.044	1.026	1.026	1.021	1.016	1.018	1.009	1.005	1.009	1.012	1.012	0.994	
Weighed Avg. for Period 2004+	1.961	0.991	1.098	1.042	1.027	1.067	1.048	1.008	1.009											
Weighed Avg. for Period 2003+	1.978	1.013	1.088	1.043	1.023	1.066	1.052	1.018	1.015	1.024										
Prior Selected	6 to 18 2.200	18 to 30 1.065	30 to 42 1.100	42 to 54 1.070	54 to 66 1.060	66 to 78 1.075	78 to 90 1.060	90 to 102 1.050	102 to 114 1.027	114 to 126 1.026	126 to 138 1.025	138 to 150 1.020	150 to 162 1.020	162 to 174 1.015	174 to 186 1.015	186 to 198 1.015	198 to 210 1.084 (ATU)	210 to 222	222 to Ultimate*	
																	- 1 -7			
Selected Age-to-Age Factor Age-to-Ultimate	2.000 3.602	1.030 1.801	1.100 1.749	1.050 1.590	1.043 1.514	1.070 1.452	1.055 1.357	1.030 1.286	1.026 1.248	1.025 1.217	1.021 1.187	1.018 1.163	1.017 1.142	1.012 1.123	1.012 1.110	1.012 1.097	1.012 1.084	1.012 1.071	1.058 1.058	

Notes
The tail factor at age 222 was selected based on our professional judgment and a review of the indications under various curve fits (exponential and inverse power).



#### USTIF Loss Fund Experience at 6/30/2013

Paid Development - Loss (1) (2) (3) (4) (5) (7) (11) (12) (13) (15) (16) (17) (19) (21) (6) (8) (9) (10) (14) (18) (20) Age in Months 18 30 42 54 66 78 90 126 138 162 174 198 210 234 Policy Period 102 114 150 186 222 4,124,329 5,084,843 5,722,553 7,242,469 8,316,696 9,155,065 9,847,402 10,410,633 10,843,786 11,300,869 11,611,420 13,170,559 14,164,610 1994 26,549 1,085,543 2,641,954 13,536,456 13,869,548 14,717,050 1995 1996 80.363 4.047.081 8.939.146 12.050.595 14.578.328 17.686.672 20.515.552 23.550.880 26.360.529 28.623.483 30.913.850 33.242.746 35.089.831 37.835.891 39.490.585 40.853.101 42.237.336 43.319.945 44.174.078 378.046 5 771 167 11.223.864 16 143 606 19,774,295 24.111.356 27.926.570 31 769 564 35 128 689 38 581 188 41,889,846 55,708,485 45,280,494 47 736 241 49.698.931 50,662,724 52 230 107 53 343 725 54 500 935 1997 1998 1999 2000 815,371 7,821,377 14,581,583 20,702,527 27,113,577 32,834,148 38,065,738 59,170,730 64,112,761 44,432,922 48,428,705 52,335,301 61,760,924 65,930,596 67,350,780 68,349,730 669,532 12,537,723 21,891,260 30,297,467 39,075,413 47,693,752 55,066,893 62,331,012 69,316,570 74,999,311 80,581,753 84,007,096 87,261,489 90,580,043 91,933,051 94,098,293 995,206 1,575,064 10 797 670 24 660 509 36 775 269 48 489 269 59,198,778 39,168,113 44,338,472 68,146,592 45,189,506 50,928,805 75 693 025 82 690 689 89 372 768 96 370 703 100.800.313 103 879 099 106 636 646 108 943 899 8,023,881 8,227,308 18,230,077 25,655,782 27,111,459 32,636,247 49,990,189 53,605,391 56,847,394 59,595,706 68,038,275 61,370,735 63,055,284 72,723,966 64,457,740 2001 2002 808,910 216,354 18,164,142 36,289,194 60,352,298 64,535,713 55,892,131 70,812,422 6 839 032 14 180 137 22 166 579 29 048 012 35 829 517 41 696 455 46 911 947 50 198 081 52 805 917 55 249 309 57 084 147 216,354 116,449 55,434 115,754 98,943 285,928 473,915 4,102,891 4,053,646 9,691,219 10,308,270 15,453,958 21,016,687 19,696,226 27,298,840 23,171,871 32,681,469 26,550,349 37,681,242 29,164,849 41,514,100 31,245,190 43,927,541 33,050,557 45,878,641 2003 2004 34,739,575 2005 2006 2007 2008 3 587 812 10 699 396 15 753 216 20 226 741 23 938 820 26 988 448 29 919 189 32 029 453 3,742,351 5,676,478 5,506,780 23,938,820 18,619,114 21,896,733 19,898,848 20,919,129 24,325,300 8 422 268 12 411 065 15 576 114 22,905,540 11,209,781 19,388,678 10.865,540 14.655.030 17.327.320 2009 296,668 4,890,464 9.654.610 12,775,569 15.379.563 2010 2011 277,174 160,417 4,103,941 3,224,571 8,576,747 7,776,653 12,273,389 2012 67.306 2.506.650 2013 55.803 Policy Period 6 to 18 18 to 30 30 to 42 42 to 54 54 to 66 66 to 78 78 to 90 90 to 102 102 to 114 114 to 126 126 to 138 138 to 150 150 to 162 162 to 174 174 to 186 186 to 198 198 to 210 210 to 222 222 to 234 1004 40 888 2 4 3 4 1 561 1.233 1 125 1 101 1.076 1.057 1 042 1 028 1 025 1 021 1 022 1.016 1.042 1.075 1.081 1.062 1.043 1.046 1.030 1.041 1.033 1.080 1.086 1.064 1.074 1.078 1.048 1.054 1.046 1995 1996 1997 1998 1.210 1.225 1.310 1.290 1.160 1.158 1.148 1.119 1.086 1.078 1.041 1.044 1.035 1.034 50.360 2.209 1.945 1.348 1.438 1.420 1.384 1.491 1.407 1.493 1.563 1.595 2.039 1.472 1.474 1.409 1.349 1.323 1.431 1.213 1.056 1.054 1.026 1.022 1.020 15 266 1.106 9.592 18.726 1.864 1.746 1.211 1.159 1.155 1.167 1.090 1.112 1.081 1.082 1.044 1.038 1.028 1.015 1.022 1.015 2.284 2.272 2.208 2.073 1.221 1.200 1.222 1.233 1999 2000 2001 2002 1.111 1.106 1.097 1.125 1.092 1.072 1.080 1.070 1.081 1.060 1.069 1.052 1.319 1.272 1.339 1.310 1.275 1.299 1.284 1.255 1.228 1.182 1.031 1.027 1.027 10.850 1.151 1.154 1.027 1 022 5.094 10.171 31.610 1.149 35.233 73.126 30.995 2.362 2.543 2.982 2.251 1.176 1.197 1.184 1.195 1.098 1.102 1.109 1.095 1.146 1.153 1.127 1.058 2003 2004 2005 1.071 1.058 1.071 1.051 2006 37.823 1.124 19.853 11.620 1.975 1.973 1.974 1.129 2007 2008 2009 16.485 1.204 2.090 2010 14 806 20.101 37.243 2011 2012 3 yr. Weighted Avg 3 yr. Simple Avg. 2.128 2.159 1.365 1.368 1.408 1.397 1.482 1.473 1.205 1.205 1.247 1.231 1.265 1.278 1.066 1.067 1.071 1.070 1.087 1.086 1.051 1.051 1.062 1.056 1.064 1.065 1.025 1.025 1.023 1.023 1.155 1.035 1.035 1.021 1.022 1.027 1.022 1.023 1.064 1.057 1.072 1.071 2.082 2.085 2.200 2.131 1.173 1.141 1.132 1.155 1.151 1.105 1.106 1.121 1.119 1.036 1.033 1.039 1.036 6 yr. Weighted Avg. 5 yr. Simple Avg. All yr. Simple Avg. 16 593 1.043 1.036 20.051 1.026 1.044 1.027 1.028 25.781 14.181 1.193 1.050 1.028 1.023 1.023 1.040 1.024 1.022 1.021 1.020 1.016 1.016 All yr. Weighted Avg. Weighed Avg. for Period 2004+ Weighed Avg. for Period 2003+ 20.361 21.250 2.228 1.501 1.512 1.247 1.251 1.172 1.173 1.132 1.102 1.063 1.044 1.050 1.051

Age-to-Ultimate

Prior Selected

Selected Age-to-Age Factor

6 to 18

60.000

602 795

18 to 30

2.230

10 047

Notes

The tail factor at age 222 was selected based on our professional judgment and a review of the indications under various curve fits (exponential and inverse power).

30 to 42

1.450

4 505

42 to 54

1.250

3 107

54 to 66

1.170

2 486

66 to 78

1.140

2 124

78 to 90

1.105

1 864

90 to 102

1.070

1 686

102 to 114

1.060

1 576

114 to 126

1.055

1 487

126 to 138

1.050

1.048

1 400

138 to 150

1.040

1.037

1 345

150 to 162

1.040

1.036

1 297

162 to 174

1.035

1.030

1 252

174 to 186

1.030

1.030

1 215

186 to 198

1.030

1.025

1 180

198 to 210

1.025

1 151

210 to 222

1.021

1 123

222 to Ultimate\*

1.100

1 100



#### USTIF Loss Fund Experience at 6/30/2013 Reported Claim Count Development

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Montl 6	ns 18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994	55	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
1995	168	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	170
1996	165	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	000	
1997	198	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	000		
1998	267	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	100			
1999	375	574	574	574	574	574	574	574	574	574	574	574	574	574	574	525				
2000	224	356	356	356	356	356	356	356	356	356	356	356	356	356	374					
2001	134	333	333	333	333	333	333	333	333	333	333	333	333	330						
2002	238	349	349	349	349	349	349	349	349	349	349	349	333							
2002	100	241	241	241	241	241	241	241	241	241	241	545								
2004	178	319	319	319	319	319	319	319	319	319										
2005	100	236	236	236	236	236	236	236	236	0.0										
2006	103	207	207	207	207	207	207	207	200											
2007	85	184	184	184	184	184	184	20,												
2008	90	177	177	177	177	177														
2009	94	174	174	174	174	***														
2010	80	156	156	156																
2011	75	187	187																	
2012	89	178																		
2013	91																			
Policy Period	6 to 18	18 to 30	30 to 42	42 to 54	54 to 66	66 to 78	78 to 90	90 to 102	102 to 114	114 to 126	126 to 138	138 to 150	150 to 162	162 to 174	174 to 186	186 to 198	198 to 210	210 to 222	222 to 234	
1994	3.091	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1995	2.315	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1996	2.321	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1997	2.187	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
1998	1.981	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1999	1.531	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
2000	1.589	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
2001	2.485	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000								
2002	1.466	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
2003	2.410	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000										
2004	1.792	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000											
2005	2.360	1.000	1.000	1.000	1.000	1.000	1.000	1.000												
2006	2.010	1.000	1.000	1.000	1.000	1.000	1.000													
2007	2.165	1.000	1.000	1.000	1.000	1.000														
2008	1.967	1.000	1.000	1.000	1.000															
2009 2010	1.851 1.950	1.000	1.000	1.000																
2010 2011	1.950 2.493	1.000	1.000																	
2011	2.493	1.000																		
2012	2.000																			
3 yr. Weighted Avg.	2.135	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
3 yr. Simple Avg.	2.148	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
6 yr. Weighted Avg.	2.058	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
5 yr. Simple Avg.	2.052	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
All yr. Simple Avg.	2.103	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Weighed Avg. for Period 2004+	2.034	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000											
Weighed Avg. for Period 2003+	2.071	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000										
Prior Selected	6 to 18 2.080	18 to 30 1.000	30 to 42 1.000	42 to 54 1.000	54 to 66 1.000	66 to 78 1.000	78 to 90 1.000	90 to 102 1.000	102 to 114 1.000	114 to 126 1.000	126 to 138 1.000	138 to 150 1.000	150 to 162 1.000	162 to 174 1.000	174 to 186 1.000	186 to Ultimate 1.000				
Selected Age-to-Age Factor	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
Age-to-Ultimate	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
, go to offiniate	2.500				500	1.500			500	500		500	500	1.500	500	500				



#### USTIF Loss Fund Experience at 6/30/2013 Paid Development - Expense

										•	•									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
	Age in Months																			
Policy Period	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994		27,433	77,232	111,899	200,420	216,899	240,084	248,007	322,341	503,072	841.418	1,351,828	1,731,422	1,977,574	2,144,379	2,173,272	2,212,159	2,220,431	2,230,005	2,243,806
1995		40,578	86.977	134,486	165,985	257.409	305.628	337.182	387.515	513.823	559,140	654.134	797.625	910.077	1.026.703	1.075.096	1.136.960	1,161,275	1,211,556	2,210,000
1996		11,995	39,431	162,846	200,709	210,893	215,730	231,958	286,209	323,819	461,196	656,044	862,517	1,041,758	1,225,521	1,362,265	1,439,164	1,569,935	.,,	
1997		54,402	176,759	315,193	451,955	731,022	1,383,513	1,629,688	1,694,449	1,725,066	1,840,136	2,012,079	2,133,015	2,280,526	2,418,637	2,517,438	2,614,271	.,,		
1998		104,336	193,899	470.205	1,162,714	1.764.606	2,044,125	2.441.676	3,126,889	3.532.562	3,875,709	4.179.944	4.431.888	4.724.240	4.945.082	5,168,911	,- ,			
1999	-	12,007	86,954	403,140	729,973	983,522	1,487,175	2,468,786	3,091,807	3,600,118	3,991,427	4,280,935	4,669,028	4,987,671	5,278,273	.,,				
2000	150	939	117,093	298,953	571,205	1,354,247	1,862,050	2,067,526	2,354,948	2,481,623	2,648,059	2,867,994	3,017,192	3,104,229						
2001	993	148,978	312,938	494,399	638,920	824,646	1,335,042	1,559,623	1,779,356	2,019,045	2,292,089	2,469,608	2,638,453							
2002	11,730	250,054	530,452	764,930	880,062	1,027,233	1,167,726	1,359,653	1,516,322	1,724,898	1,952,331	2,163,461								
2003	61,448	360,265	600,571	709,946	886,715	965,225	1,080,816	1,171,579	1,333,505	1,499,649	1,693,604									
2004	8,494	258,111	872,659	1,268,350	1,467,004	1,699,147	1,880,551	2,055,445	2,242,522	2,508,837										
2005	14,481	199,050	555,531	806,211	1,101,947	1,301,221	1,473,232	1,759,834	2,014,661											
2006	10,227	154,866	343,412	576,952	807,757	941,402	1,030,471	1,211,684												
2007 2008	5,832 10,579	250,350 172,403	524,980 398,549	762,100 751,925	947,108 1,097,937	1,121,420 1,379,413	1,253,950													
2008	6.750	330,615	778,014	1,084,747	1,413,265	1,379,413														
2010	14,243	253,019	566,659	811,890	1,413,203															
2011	16,050	350,888	797,955	011,030																
2012	4,950	339,366	707,000																	
2013	19,130	,																		
8.5 8.1		4000	00. 10	40. 54	F4. 00	70	70.00	00 / 100		4444 400	100 : 100	100 : 150	450 / 400	400 - 474	474 . 400	400 / 400	400.040	040000		
Policy Period	6 to 18	18 to 30	30 to 42	42 to 54	54 to 66	66 to 78	78 to 90	90 to 102	102 to 114	114 to 126	126 to 138	138 to 150	150 to 162	162 to 174	174 to 186	186 to 198	198 to 210	210 to 222	222 to 234	
1994	-	2.815	1.449	1.791	1.082	1.107	1.033	1.300	1.561	1.673	1.607	1.281	1.142	1.084	1.013	1.018	1.004	1.004	1.006	
1995	-	2.143	1.546	1.234	1.551	1.187	1.103	1.149	1.326	1.088	1.170	1.219	1.141	1.128	1.047	1.058	1.021	1.043		
1996		3.287	4.130	1.233	1.051	1.023	1.075	1.234	1.131	1.424	1.422	1.315	1.208	1.176	1.112	1.056	1.091			
1997 1998	-	3.249 1.858	1.783 2.425	1.434 2.473	1.617 1.518	1.893 1.158	1.178 1.194	1.040 1.281	1.018 1.130	1.067 1.097	1.093 1.078	1.060 1.060	1.069 1.066	1.061 1.047	1.041 1.045	1.038				
1999		7.242	4.636	1.811	1.347	1.512	1.660	1.252	1.164	1.109	1.073	1.091	1.068	1.058	1.045					
2000	6.260	124.700	2.553	1.911	2.371	1.375	1.110	1.139	1.054	1.067	1.083	1.052	1.029	1.000						
2001	150.028	2.101	1.580	1.292	1.291	1.619	1.168	1.141	1.135	1.135	1.077	1.068	1.020							
2002	21.317	2.121	1.442	1.151	1.167	1.137	1.164	1.115	1.138	1.132	1.108									
2003	5.863	1.667	1.182	1.249	1.089	1.120	1.084	1.138	1.125	1.129										
2004	30.387	3.381	1.453	1.157	1.158	1.107	1.093	1.091	1.119											
2005	13.746	2.791	1.451	1.367	1.181	1.132	1.195	1.145												
2006	15.143	2.217	1.680	1.400	1.165	1.095	1.176													
2007	42.927	2.097	1.452	1.243	1.184	1.118														
2008 2009	16.297	2.312 2.353	1.887 1.394	1.460	1.256															
2010	48.980 17.764	2.353	1.433	1.303																
2010	21.862	2.274	1.433																	
2012	68.559	L.L.																		
3 yr. Weighted Avg.	26.765	2.293	1.519	1.331	1.207	1.117	1.147	1.121	1.126	1.132	1.088	1.073	1.058	1.054	1.053	1.048	1.034			
3 yr. Simple Avg.	36.062	2.289	1.571	1.335	1.202	1.115	1.154	1.125	1.127	1.132	1.090	1.070	1.054	1.055	1.066	1.051	1.039			
6 yr. Weighted Avg.	29.050	2.255	1.514	1.302	1.174	1.118	1.144	1.127	1.123	1.107	1.083	1.078	1.071	1.070	4.050					
5 yr. Simple Avg. All yr. Simple Avg.	34.692 35.318	2.255 9.492	1.569 1.969	1.355 1.469	1.189 1.335	1.114 1.256	1.142 1.172	1.126 1.169	1.114 1.173	1.114 1.192	1.084 1.190	1.066 1.143	1.088 1.103	1.094 1.092	1.052 1.052	1.043	1.039	1.024	1.006	
All yr. Weighted Avg.	20.007	2.369	1.585	1.396	1.307	1.250	1.172	1.163	1.127	1.124	1.118	1.098	1.078	1.092	1.032	1.039	1.039	1.018	1.006	
Weighed Avg. for Period 2004		2.457	1.501	1.302	1.188	1.114	1.147	1.116	1.119	1.124	1.110	1.030	1.070	1.070	1.040	1.000	1.054	1.010	1.000	
Weighed Avg. for Period 2003		2.334	1.459	1.296	1.174	1.115	1.134	1.121	1.121	1.129										
	6 to 18	18 to 30	30 to 42	42 to 54	54 to 66	66 to 78	78 to 90	90 to 102	102 to 114	114 to 126	126 to 138	138 to 150	150 to 162	162 to 174	174 to 186	186 to 198	198 to 210	210 to 222	222 to Ultimate*	
Prior Selected ATA	20.000	2.400	1.650	1.370	1.190	1.180	1.180	1.170	1.150	1.120	1.100	1.100	1.100	1.100	1.100	1.060	1.2 (ATU)	n/a	n/a	
																	, ,			
Selected Age-to-Age Factor		2.350	1.550	1.360	1.190	1.150	1.150	1.140	1.130	1.130	1.100	1.080	1.070	1.070	1.060	1.05	1.050	1.030	1.11	
Age-to-Ultimate	412.479	20.624	8.776	5.662	4.163	3.499	3.042	2.645	2.321	2.054	1.817	1.652	1.530	1.430	1.336	1.260	1.200	1.143	1.110	

Notes
The tail factor at age 222 was selected based on our professional judgment and a review of the indications under various curve fits (exponential and inverse power).



#### USTIF Loss Fund Experience at 6/30/2013 Closed Claim Counts

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Months	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2006 2007 2008 2009 2010	10 41 24 16 12 32 22 10 16 10 9 6 12 13 14	117 212 130 165 218 163 147 38 63 61 70 65 55 71 68 66 51 47	133 213 201 242 281 295 147 62 143 98 122 112 106 95 87 76 85	123 256 234 254 315 275 156 105 183 113 147 133 117 106 95 94	134 272 242 278 321 284 176 131 196 132 173 142 133 115 108	141 275 260 277 331 300 204 145 213 144 187 154 143 124	142 271 262 281 346 339 218 160 243 156 202 158 151	148 275 263 288 362 370 228 184 251 160 213 165 157	146 277 266 311 371 381 250 191 255 170 226	145 281 273 320 391 403 259 200 259 175 237	148 295 277 332 405 416 267 213 264 183	150 295 289 342 418 427 274 221 274	154 304 297 351 430 437 281 239	155 315 301 357 436 449 287	158 318 312 364 447 472	160 328 314 371 455	161 335 321 379	161 337 326	160 342	162
2011 2012 2013	6 18 15	60 76	97																	



#### USTIF Loss Fund Experience at 6/30/2013 Open Claims

Color   Colo										Open C	iaims										
Policy Period 6 18 30 42 54 66 78 90 102 114 126 138 150 162 174 186 198 210 222 234 234 1994 45 53 37 47 36 29 28 22 24 25 22 20 16 15 15 12 10 9 9 9 10 8 1995 127 177 176 133 117 114 118 114 112 108 94 94 85 74 71 61 54 52 47 1996 141 253 182 149 141 123 121 120 117 110 106 94 86 82 71 69 62 57 1997 182 268 191 179 155 156 152 145 122 113 101 91 82 76 69 62 54 1999 343 411 279 299 290 274 235 204 193 171 158 147 137 125 102 102 2000 202 209 209 200 180 152 138 128 106 97 89 82 75 69 2001 124 295 271 228 202 188 173 149 142 133 120 112 94 122 2002 222 286 206 166 153 136 106 98 94 90 85 75 2004 169 249 197 172 146 132 117 106 93 82 2006 91 180 143 128 109 97 85 81 71 60 93 82 2006 91 180 143 128 109 97 85 81 71 60 93 82 2006 91 136 101 90 74 64 56 50 2006 91 136 101 90 74 64 56 50 2008 76 111 90 71 62 2009 88 123 98 80 64 2009 88 123 99 80 82 80 80 64 2009 88 123 98 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 99 80 80 64 2009 88 123 90 80 80 64 2009 88 123 90 80 80 64 2009 80 80 80 80 80 80 80 80 80 80 80 80 80	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1996	Policy Period		18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
2013 76	1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	127 141 182 255 343 202 124 222 90 169 94 91 72 76 88 71 69 71	177 253 268 311 411 209 295 286 180 249 181 136 116 111 123	176 182 191 248 279 209 271 206 143 197 124 101 89 90 98 71	133 149 179 214 299 200 228 166 128 172 103 90 78 82 80	117 141 155 208 290 180 202 153 109 146 94 74 69 69	114 123 156 198 274 152 188 136 97 132 82 64 60	118 121 152 183 235 138 173 106 85 117 78 56	114 120 145 167 204 128 149 98 81 106 71	112 117 122 158 193 106 142 94 71 93	108 110 113 138 171 97 133 90 66	106 101 124 158 89 120 85	94 94 91 111 147 82 112	85 86 82 99 137 75	74 82 76 93 125	71 71 69 82	61 69 62	54 62	52		8



#### USTIF Loss Fund Experience at 6/30/2013 Ratios of Paid to Incurred Loss

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Months	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
-																				
1994	0.012	0.114	0.297	0.480	0.641	0.688	0.675	0.721	0.705	0.734	0.764	0.787	0.812	0.821	0.890	0.912	0.922	0.932	0.940	0.961
1995	0.009	0.251	0.489	0.605	0.693	0.730	0.679	0.709	0.736	0.764	0.806	0.811	0.828	0.841	0.858	0.895	0.908	0.919	0.926	
1996	0.042	0.247	0.433	0.584	0.648	0.659	0.693	0.718	0.725	0.779	0.805	0.836	0.853	0.869	0.887	0.895	0.901	0.911		
1997	0.067	0.281	0.516	0.572	0.638	0.689	0.664	0.724	0.754	0.799	0.822	0.863	0.876	0.893	0.910	0.935	0.951			
1998	0.034	0.348	0.523	0.587	0.645	0.694	0.704	0.744	0.786	0.809	0.858	0.890	0.909	0.930	0.935	0.949				
1999	0.038	0.255	0.472	0.562	0.579	0.633	0.707	0.748	0.772	0.813	0.858	0.888	0.903	0.918	0.934					
2000	0.087	0.257	0.465	0.555	0.607	0.647	0.721	0.780	0.832	0.869	0.891	0.896	0.921	0.934						
2001	0.050	0.193	0.364	0.501	0.605	0.675	0.735	0.797	0.824	0.860	0.885	0.889	0.909							
2002	0.008	0.164	0.325	0.472	0.560	0.650	0.741	0.790	0.819	0.851	0.864	0.887								
2003	0.010	0.164	0.327	0.505	0.615	0.718	0.772	0.797	0.818	0.845	0.867									
2004	0.003	0.100	0.255	0.432	0.569	0.684	0.732	0.759	0.812	0.841										
2005	0.008	0.117	0.364	0.532	0.620	0.709	0.766	0.814	0.841											
2006	0.009	0.166	0.404	0.561	0.667	0.765	0.770	0.820												
2007	0.029	0.281	0.541	0.646	0.741	0.790	0.852													
2008	0.045	0.281	0.484	0.623	0.707	0.790														
2009	0.025	0.220	0.449	0.617	0.713															
2010	0.030	0.234	0.491	0.592																
2011	0.018	0.159	0.412																	
2012	0.007	0.164																		
2013	0.006																			

Note - Loss data equals ratio of data in Exhibit 13 to data in Exhibit 12.



#### USTIF Loss Fund Experience at 6/30/2013 Ratios of Closed to Reported Claims

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Months	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
r oncy r eriou	ŭ	10	30	72	34	00	70	30	102	114	120	130	130	102	17-4	100	130	210	LLL	234
1994	0.182	0.688	0.782	0.724	0.788	0.829	0.835	0.871	0.859	0.853	0.871	0.882	0.906	0.912	0.929	0.941	0.947	0.947	0.941	0.953
1995	0.244	0.545	0.548	0.658	0.699	0.707	0.697	0.707	0.712	0.722	0.758	0.758	0.781	0.810	0.817	0.843	0.861	0.866	0.879	
1996	0.145	0.339	0.525	0.611	0.632	0.679	0.684	0.687	0.695	0.713	0.723	0.755	0.775	0.786	0.815	0.820	0.838	0.851		
1997	0.081	0.381	0.559	0.587	0.642	0.640	0.649	0.665	0.718	0.739	0.767	0.790	0.811	0.824	0.841	0.857	0.875			
1998	0.045	0.412	0.531	0.595	0.607	0.626	0.654	0.684	0.701	0.739	0.766	0.790	0.813	0.824	0.845	0.860				
1999	0.085	0.284	0.514	0.479	0.495	0.523	0.591	0.645	0.664	0.702	0.725	0.744	0.761	0.782	0.822					
2000	0.098	0.413	0.413	0.438	0.494	0.573	0.612	0.640	0.702	0.728	0.750	0.770	0.789	0.806						
2001	0.075	0.114	0.186	0.315	0.393	0.435	0.480	0.553	0.574	0.601	0.640	0.664	0.718							
2002	0.067	0.181	0.410	0.524	0.562	0.610	0.696	0.719	0.731	0.742	0.756	0.785								
2003	0.100	0.253	0.407	0.469	0.548	0.598	0.647	0.664	0.705	0.726	0.759									
2004	0.051	0.219	0.382	0.461	0.542	0.586	0.633	0.668	0.708	0.743										
2005	0.060	0.233	0.475	0.564	0.602	0.653	0.669	0.699	0.746											
2006	0.117	0.343	0.512	0.565	0.643	0.691	0.729	0.758												
2007	0.153	0.370	0.516	0.576	0.625	0.674	0.707													
2008	0.156	0.373	0.492	0.537	0.610	0.672														
2009	0.064	0.293	0.437	0.540	0.632															
2010	0.113	0.301	0.545	0.603																
2011	0.080	0.321	0.519																	
2012	0.202	0.427																		
2013	0.165																			

Note - Loss data equals ratio of data in Exhibit 16 to data in Exhibit 14.



#### USTIF Loss Fund Experience at 6/30/2013 Average Incurred Loss per Reported Claim

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Months	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994 1996 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	41,697 51,269 54,160 61,534 74,696 69,359 80,771 120,337 114,881 117,300 121,461 137,350 112,379 117,118 116,500 124,096 116,663 120,133 101,809	55,784 41,385 61,015 64,346 68,047 73,671 87,664 127,998 119,841 103,700 126,660 109,056 109,051 109,056 109,921 112,391 127,912 112,391 85,640	52,350 47,040 67,660 65,264 79,115 91,068 110,233 149,860 125,095 123,155 126,895 124,711 100,637 112,673 123,499 111,865 101,049	50,513 51,171 72,129 83,550 97,650 97,650 113,959 162,547 134,481 126,919 152,443 106,890 132,802 132,802 132,805	46,651 54,104 79,663 98,214 114,501 145,802 180,239 148,544 150,342 132,981 150,342 138,143 112,781 142,291 133,941	48,909 62,303 95,467 110,088 129,898 162,973 170,116 197,135 157,915 133,903 149,672 142,972 117,569 150,569 142,298	63,157 77,626 105,225 132,337 147,959 167,938 208,057 161,162 142,659 161,339 149,321 131,212 155,181	67,855 85,376 115,463 141,685 158,390 176,224 180,100 210,586 1770,221 151,843 171,523 155,663 134,939	76,395 92,036 126,591 148,245 166,719 186,707 219,884 172,27 175,87 180,979 219,884 169,483 161,395	78,941 96,338 129,263 151,196 175,189 191,535 225,438 177,89 162,296 171,070	80,128 98,609 135,788 156,597 177,491 195,612 187,904 230,954 183,290 166,251	81,082 105,395 141,488 158,391 178,426 197,740 192,313 239,202 184,351	81,876 108,880 146,150 162,765 181,552 200,360 192,241 240,349	83,234 115,588 149,307 165,742 184,150 202,291 193,828	87,087 118,253 149,064 167,238 185,803 203,166	87,355 117,357 152,400 166,371 187,368	88,511 119,559 154,619 165,916	89,435 121,166 156,267	90,616 122,572	90,069

Note - Loss data equals ratio of data in Exhibit 12 to data in Exhibit 14.



#### USTIF Loss Fund Experience at 6/30/2013 Average Paid Loss per Closed Claim

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Month	s 18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	2,655 1,960 15,752 50,961 55,794 31,100 71,594 80,891 13,522 11,645 6,159 19,292 8,245 21,994 33,851 49,445 30,797 26,736	9,278 19,090 44,394 47,402 54,584 216,508 67,261 57,209 83,478 83,436 95,891 87,318 87,318	19,864 41,968 55,840 60,254 77,205 83,595 124,014 292,970 99,162 98,890 84,494 95,530 79,455 117,989 124,891 127,034 100,903 80,172	33,531 47,073 68,990 81,506 96,162 133,728 164,460 258,204 121,129 136,761 142,971 118,445 106,077 148,93 154,263 135,910 130,568	37,947 53,597 81,712 97,531 121,730 170,737 185,433 277,017 148,204 149,214 157,797 142,442 117,114 168,598 139,814	40,585 64,315 92,736 118,535 144,090 197,329 192,001 305,783 168,214 160,916 175,447 130,204 176,587 167,217	51,003 75,703 106,590 135,465 159,153 201,022 207,291 318,305 171,590 170,195 186,541 170,813 138,537 187,118	56,194 85,640 120,797 154,281 172,185 204,576 219,255 303,762 186,900 182,280 194,902 181,328 145,895	62,706 95,164 132,063 155,719 186,837 217,036 214,422 315,981 196,855 183,795 194,370 181,986	67,913 101,863 141,323 163,548 191,814 221,769 219,488 322,679 203,884 188,860 193,581	70,342 104,793 151,227 167,797 188,967 231,660 223,205 319,429 209,278 189,834	72,292 112,687 156,680 173,014 200,974 236,066 223,981 320,418 208,336	73,382 115,427 160,728 175,957 202,934 237,710 224,396 304,284	74,912 120,114 165,113 179,588 207,752 237,498 224,591	83,358 124,184 162,381 181,128 205,667 230,813	84,603 124,552 166,338 181,538 206,809	86,146 126,082 166,180 180,342	87,979 128,546 167,181	90,501 129,164	90,846
2009 2010	49,445 30,797	95,891 87,318	127,034 100,903	135,910		107,217														

Note - Loss data equals ratio of data in Exhibit 13 to data in Exhibit 16.



#### USTIF Loss Fund Experience at 6/30/2013 Average Case Outstanding Loss

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Month 6	ıs 18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	50,373 67,188 60,698 62,464 75,585 72,929 81,770 123,518 122,186 129,039 127,601 144,886 126,111 134,293 131,725 129,186 127,547 128,255	158,449 68,089 69,556 74,777 75,432 76,616 110,931 116,597 122,327 116,048 145,987 149,431 138,472 125,422 126,763 141,189 123,025	169,125 53,179 80,715 71,612 80,486 98,970 100,539 117,120 143,097 139,785 151,068 122,688 102,688 102,686 120,757 124,989	94,954 59,059 77,060 86,451 99,810 95,776 102,736 118,494 149,201 118,201 118,201 110,800 108,137 98,939 136,424	79,050 55,283 76,146 99,439 103,344 121,384 117,177 148,979 113,328 131,650 104,994 98,446 103,924 96,659	89,377 57,449 101,239 95,089 106,173 125,366 140,746 113,337 141,785 93,803 114,120 119,543 89,338 96,799 91,170	124,792 82,042 102,270 126,555 120,211 126,6795 120,211 126,679 106,093 137,256 92,125 117,829 105,787 111,461 78,297	146,299 84,741 103,772 116,667 128,485 124,801 110,355 95,524 127,504 91,720 124,546 96,018 100,535	159,668 84,300 114,151 119,479 126,834 102,105 90,628 118,208 97,914 109,005 100,996	142,906 81,962 99,332 116,217 128,086 120,281 88,710 79,212 103,094 91,859 106,010	145,957 79,203 95,442 119,783 107,347 100,700 82,001 73,913 102,576 91,843	147,008 82,510 94,781 103,435 93,516 86,413 86,496 78,946 96,727	163,625 85,465 95,805 106,297 88,663 81,222 71,765 77,788	169,222 96,322 91,289 100,707 73,497 75,825 65,867	136,183 91,689 90,547 93,964 77,521 75,229	131,394 78,670 88,971 75,612 67,833	130,815 79,095 94,767 64,663	115,490 73,339 93,846	92,468 74,603	74,339
2012 2013	126,672 124,595	124,875																		

Note - The above values can be calculated according to the following formula: (Exhibit 12 - Exhibit 13) / (Exhibit 14 - Exhibit 16)



#### USTIF Loss Fund Experience at 6/30/2013 Ratios of Paid ALAE to Paid Loss

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Policy Period	Age in Months	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012	0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.054 0.528 0.153 0.125 0.103 0.020 0.022 0.022 0.023	0.025 0.010 0.002 0.007 0.008 0.001 0.000 0.018 0.037 0.084 0.055 0.041 0.044 0.031 0.068 0.062 0.109	0.029 0.010 0.004 0.012 0.009 0.004 0.006 0.017 0.085 0.052 0.041 0.047 0.037 0.086 0.013	0.027 0.011 0.010 0.015 0.016 0.011 0.018 0.035 0.046 0.051 0.048 0.051 0.085	0.039 0.011 0.010 0.017 0.030 0.015 0.018 0.030 0.045 0.054 0.052 0.049 0.063	0.038 0.015 0.009 0.022 0.037 0.017 0.035 0.019 0.029 0.042 0.054 0.051 0.051	0.033 0.015 0.008 0.036 0.037 0.022 0.041 0.026 0.028 0.041 0.055 0.055	0.030 0.014 0.007 0.037 0.039 0.033 0.041 0.029 0.040 0.050 0.059	0.035 0.015 0.008 0.035 0.045 0.037 0.044 0.029 0.030 0.043 0.051	0.051 0.018 0.008 0.033 0.047 0.040 0.044 0.031 0.033 0.045 0.055	0.081 0.018 0.011 0.033 0.048 0.041 0.044 0.034 0.035 0.049	0.125 0.020 0.014 0.035 0.042 0.047 0.035 0.038	0.153 0.023 0.018 0.035 0.051 0.045 0.048 0.036	0.170 0.024 0.021 0.036 0.052 0.047 0.048	0.163 0.026 0.024 0.037 0.054 0.048	0.161 0.026 0.026 0.037 0.055	0.159 0.027 0.027 0.038	0.157 0.027 0.029	0.154 0.027	0.152

Note - Loss data equals ratio of data in Exhibit 15 to data in Exhibit 13.



#### USTIF Loss Fund Experience at 6/30/2013 Average Paid ALAE per Reported Claim

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
	e in Months		••	40					400		400	400	450	400	474	400	400	040		20.4
Policy Period	6	18	30	42	54	66	78	90	102	114	126	138	150	162	174	186	198	210	222	234
1994	-	161	454	658	1,179	1,276	1,412	1,459	1,896	2,959	4,950	7,952	10,185	11,633	12,614	12,784	13,013	13,061	13,118	13,199
1995	-	104	224	346	427	662	786	867	996	1,321	1,437	1,682	2,050	2,340	2,639	2,764	2,923	2,985	3,115	
1996	-	31	103	425	524	551	563	606	747	845	1,204	1,713	2,252	2,720	3,200	3,557	3,758	4,099		
1997	-	126	408	728	1,044	1,688	3,195	3,764	3,913	3,984	4,250	4,647	4,926	5,267	5,586	5,814	6,038			
1998	-	197	367	889	2,198	3,336	3,864	4,616	5,911	6,678	7,326	7,902	8,378	8,931	9,348	9,771				
1999	-	21	151	702	1,272	1,713	2,591	4,301	5,386	6,272	6,954	7,458	8,134	8,689	9,196					
2000	1	3	329	840	1,605	3,804	5,230	5,808	6,615	6,971	7,438	8,056	8,475	8,720						
2001	7	447	940	1,485	1,919	2,476	4,009	4,684	5,343	6,063	6,883	7,416	7,923							
2002	49	716	1,520	2,192	2,522	2,943	3,346	3,896	4,345	4,942	5,594	6,199								
2003	614	1,495	2,492	2,946	3,679	4,005	4,485	4,861	5,533	6,223	7,027									
2004	48	809	2,736	3,976	4,599	5,326	5,895	6,443	7,030	7,865										
2005	145	843	2,354	3,416	4,669	5,514	6,243	7,457	8,537											
2006	99	748	1,659	2,787	3,902	4,548	4,978	5,854												
2007	69	1,361	2,853	4,142	5,147	6,095	6,815													
2008	118	974	2,252	4,248	6,203	7,793														
2009	72	1,900	4,471	6,234	8,122															
2010	178	1,622	3,632	5,204																
2011	214	1,876	4,267																	
2012	56	1,907																		
2013	210																			

Note - Loss data equals ratio of data in Exhibit 15 to data in Exhibit 14.



#### USTIF Loss Fund Experience at 6/30/2013 Data Summary - Loss Summary

(1)	(2)	(3)	(4)	(5)
I		Loss		ALAE
Policy Period	Paid	Case Reserve	Case Incurred	Paid
1994	14,717,050	594,711	15,311,761	2,243,806
1995	44,174,078	3,506,319	47,680,397	1,211,556
1996	54,500,935	5,349,234	59,850,169	1,569,935
1997	68,349,730	3,491,780	71,841,510	2,614,271
1998	94,098,293	5,019,624	99,117,917	5,168,911
1999	108,943,899	7,673,367	116,617,266	5,278,273
2000	64,457,740	4,544,850	69,002,590	3,104,229
2001	72,723,966	7,312,098	80,036,064	2,638,453
2002	57,084,147	7,254,517	64,338,664	2,163,461
2003	34,739,575	5,326,902	40,066,477	1,693,604
2004	45,878,641	8,692,840	54,571,481	2,508,837
2005	32,029,453	6,059,773	38,089,226	2,014,661
2006	22,905,540	5,026,730	27,932,270	1,211,684
2007	24,325,300	4,228,030	28,553,330	1,253,950
2008	19,898,848	5,287,866	25,186,714	1,379,413
2009	15,379,563	6,186,163	21,565,726	1,413,265
2010	12,273,389	8,458,262	20,731,651	811,890
2011	7,776,653	11,119,495	18,896,148	797,955
2012	2,506,650	12,737,282	15,243,932	339,366
2013	55,803	9,469,197	9,525,000	19,130
Total	796,819,253	127,339,040	924,158,293	39,436,650

<sup>(2)</sup> Based on client data.

<sup>(3)</sup> Based on client data.

<sup>(4) = (2) + (3)</sup> 

<sup>(5)</sup> Based on client data.



## USTIF Loss Fund Experience at 6/30/2013 Data Summary - Number of Open Claims at Prior Valuations

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
				Number of Op	en Claims as of:			İ
Policy Period	6/30/2006	6/30/2007	6/30/2008	6/30/2009	6/30/2010	6/30/2011	6/30/2012	6/30/2013
1994	16	15	12	10	9	9	10	8
1995	94	85	74	71	61	54	52	47
1996	106	94	86	82	71	69	62	57
1997	113	101	91	82	76	69	62	54
1998	158	138	124	111	99	93	82	74
1999	204	193	171	158	147	137	125	102
2000	138	128	106	97	89	82	75	69
2001	188	173	149	142	133	120	112	94
2002	153	136	106	98	94	90	85	75
2003	128	109	97	85	81	71	66	58
2004	197	172	146	132	117	106	93	82
2005	181	124	103	94	82	78	71	60
2006	91	136	101	90	74	64	56	50
2007	n/a	72	116	89	78	69	60	54
2008	n/a	n/a	76	111	90	82	69	58
2009	n/a	n/a	n/a	88	123	98	80	64
2010	n/a	n/a	n/a	n/a	71	109	71	62
2011	n/a	n/a	n/a	n/a	n/a	69	127	90
2012	n/a	n/a	n/a	n/a	n/a	n/a	71	102
2013	n/a	n/a	n/a	n/a	n/a	n/a	n/a	76
Total	1,767	1,676	1,558	1,540	1,495	1,469	1,429	1,336

<sup>(2) - (8)</sup> From Exhibit 17.



#### USTIF Loss Fund Experience at 6/30/2013 Data Summary - Claim Counts

(1) (2) (3)

Policy Period	<b>Closed Claim Counts</b>	Open Claim Counts	Reported Claim Counts
1994	162	8	170
1995	342	47	389
1996	326	57	383
1997	379	54	433
1998	455	74	529
1999	472	102	574
2000	287	69	356
2001	239	94	333
2002	274	75	349
2003	183	58	241
2004	237	82	319
2005	176	60	236
2006	157	50	207
2007	130	54	184
2008	119	58	177
2009	110	64	174
2010	94	62	156
2011	97	90	187
2012	76	102	178
2013	15	76	91
Total	4,330	1,336	5,666

<sup>(2)</sup> Based on client data.

<sup>(3)</sup> Based on client data.

<sup>(4) = (2) + (3)</sup> 



#### USTIF Loss Fund Experience @ 6/30/2013 Data Summary - Fixed Price Contracts Through Close

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	1						Year Enter	ed Into Sind	ce Policy Y	ear Inception	on					ı	
Policy Period	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Total
1998	n/a	n/a	n/a	n/a	n/a	n/a	0	1	1	6	2	6	3	1	3	0	23
1999	n/a	n/a	n/a	n/a	n/a	0	0	2	9	5	2	5	2	2	1		28
2000	n/a	n/a	n/a	n/a	1	1	3	1	3	1	2	0	2	1			15
2001	n/a	n/a	n/a	0	0	2	2	2	3	4	3	2	2				20
2002	n/a	n/a	0	2	0	1	3	3	0	2	2	1					14
2003	n/a	0	1	6	0	1	4	0	2	0	0						14
2004	0	2	3	3	4	1	3	0	1	0							17
2005	0	3	3	7	4	5	3	4	0								29
2006	0	2	5	3	4	1	1	0									16
2007	0	3	4	1	1	3	1										13
2008	0	1	1	2	6	0											10
2009	0	1	3	1	2												7
2010	0	3	1	4													8
2011	0	1	3														4
2012	0	0															0
2013	0																0
Total	0	16	24	29	22	15	20	13	19	18	11	14	9	4	4		218

<sup>(2)</sup> through (16) Incremental counts based on client data.

<sup>(18)</sup> Sum of (2) through (16).

Note: Values on last diagonal represent 6 months of data.

There are five records with missing contract year that are not included above.



## USTIF Loss Fund Experience @ 6/30/2013 Post Remedial Care Costs Associated with Environmental Covenants Summary by Policy Period

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
		Claim Counts			Paid PRCP		PR	RCP Case Resen	/es		Incurred PRCP	I
Policy Period	Open	Closed	Total	Open	Closed	Total	Open	Closed	Total	Open	Closed	Total
1994	1	1	2	0	698	698	50,000	10,665	60,665	50.000	11,363	61,363
1995	2	1	3	0	111	111	22,500	4,639	27,139	22,500	4,750	27,250
1996	2	0	2	12,266	0	12,266	412,734	0	412,734	425,000	0	425,000
1997	0	2	2	0	13,638	13,638	0	6,617	6,617	0	20,255	20,255
1998	1	1	2	0	1,113	1,113	22,525	32,337	54,862	22,525	33,450	55,975
1999	0	10	10	0	3,115	3,115	0	128,775	128,775	0	131,890	131,890
2000	1	1	2	0	0	0	0	25,000	25,000	0	25,000	25,000
2001	2	7	9	5,871	3,117	8,988	22,407	155,321	177,727	28,278	158,438	186,716
2002	3	0	3	2,778	0	2,778	48,779	0	48,779	51,557	0	51,557
2003	0	1	1	0	0	0	0	2,560	2,560	0	2,560	2,560
2004	1	2	3	1,638	1,132	2,770	12,912	11,171	24,083	14,550	12,304	26,854
2005	1	2	3	0	0	0	0	5,840	5,840	0	5,840	5,840
2006	1	1	2	0	258	258	3,750	5,992	9,742	3,750	6,250	10,000
2007	0	0	0	0	0	0	0	0	0	0	0	0
2008 - 2013	0	0	0	0	0	0	0	0	0	0	0	0
Total	15	29	44	22,553	23,181	45,735	595,607	388,917	984,523	618,160	412,098	1,030,258
Control	15	29	44	22,553	23,181	45,735	595,607	388,917	984,523	618,160	412,098	1,030,258

<sup>(2)</sup> through (13) Based on client data



# USTIF Loss Fund Experience @ 6/30/2013 Post Remedial Care (PRC) Costs Associated with Environmental Covenants Summary by PRC Year

(1) (2)		(3)	(4)	
PRC Year	Paid	Case Reserves	Incurred	
Not Available	0	72,525	72,525	
2005	0	0	0	
2006	4,139	55,861	60,000	
2007	0	0	0	
2008	3,225	31,886	35,111	
2009	606	8,844	9,450	
2010	1,113	32,337	33,450	
2011	6,579	65,624	72,203	
2012	26,306	481,531	507,837	
2013	3,767	235,916	239,684	
Total	45,735	984,523	1,030,258	
Control	45,735	984,523	1,030,258	

<sup>(1)</sup> Based on the PRC agreement date

<sup>(2)</sup> through (4) Based on client data



## **Appendix**



## Loss and Expense Projections Incurred by Fiscal Year

(1) (2) (3) (4) (5)

		<b>Estimated Total</b>		<b>Cumulative Underwriting</b>
<u>Fiscal Year</u>	Total Revenue	Annual Cost	Underwriting Income	Income
7/1/13 - 6/30/14	280,000	302,580	(22,580)	(22,580)
7/1/14 - 6/30/15	280,000	312,213	(32,213)	(54,793)
7/1/15 - 6/30/16	280,000	322,158	(42,158)	(96,951)
7/1/16 - 6/30/17	280,000	332,424	(52,424)	(149,374)
7/1/17 - 6/30/18	280,000	343,021	(63,021)	(212,396)
7/1/18 - 6/30/19	280,000	353,962	(73,962)	(286,358)
7/1/19 - 6/30/20	280,000	365,257	(85,257)	(371,615)
7/1/20 - 6/30/21	280,000	376,918	(96,918)	(468,534)
7/1/21 - 6/30/22	280,000	388,957	(108,957)	(577,491)
7/1/22 - 6/30/23	280,000	401,387	(121,387)	(698,878)
Total	2,800,000	3,498,878	(698,878)	

<sup>(2)</sup> From Appendix Exhibit 3 with a 0% trend going forward.

<sup>(3)</sup> From Appendix Exhibit 2.

<sup>(4)</sup> Equals (2) - (3).

<sup>(5)</sup> From (4).



## Loss and Expense Projections Incurred by Fiscal Year

(1) (2) (3) (4) (3) (6)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
-------------------------	-----	-----	-----	-----	-----	-----	-----

Fiscal Year	Tanks-Installed	Loss Rate	Estimated Annual ALAE	Estimated Annual Loss and ALAE	Estimated ULAE	Estimated Total Annual Cost
7/1/13 - 6/30/14	260	950	34,580	281,580	21,000	302,580
7/1/14 - 6/30/15	260	979	35,963	290,373	21,840	312,213
7/1/15 - 6/30/16	260	1,008	37,402	299,444	22,714	322,158
7/1/16 - 6/30/17	260	1,038	38,898	308,801	23,622	332,424
7/1/17 - 6/30/18	260	1,069	40,454	318,454	24,567	343,021
7/1/18 - 6/30/19	260	1,101	42,072	328,413	25,550	353,962
7/1/19 - 6/30/20	260	1,134	43,755	338,686	26,572	365,257
7/1/20 - 6/30/21	260	1,168	45,505	349,284	27,635	376,918
7/1/21 - 6/30/22	260	1,203	47,325	360,217	28,740	388,957
7/1/22 - 6/30/23	260	1,240	49,218	371,497	29,890	401,387
Total	2,600		415,171	3,246,749	252,128	3,498,878

<sup>(2)</sup> From Appendix Exhibit 6 for 2013 (0% trend per annum thereafter).

<sup>(3)</sup> From Appendix Exhibit 4-1 for 2013 (3.0% trend per annum thereafter).

<sup>(4)</sup> From the projections in the USTIF Loss Fund analysis.

<sup>(5)</sup> Equals (2) x (3) + (4).

<sup>(6)</sup> Value for 2013 selected based on discussions with the PA Insurance Department. Trended at 4% thereafter.

<sup>(7)</sup> Sum of (5) and (6).



#### Estimated Revenue for the Period 7/1/2013 - 6/30/2014

	(1)	(2)	(3)	(4)
--	-----	-----	-----	-----

	Number of Licenses or		
Туре	Activities	Fees	Revenue
Company Fees	209	1,000	209,000
Activity - Removal	450	15	6,750
Activity - Major Modifications	825	50	41,250
Activity - Installations	260	50	13,000
		Indicated Total	270,000
	(5) Actual Fe	ees - 7/1/2012 to 6/30/2013	289,456
	Selec	ted 2013/14 TIIP Revenue	280,000

<sup>(2)</sup> From Appendix Exhibit 6 with the Number of Licenses provided by the PA Insurance Department.

<sup>(3)</sup> From the current fee structure.

<sup>(4)</sup> Equals (2) times (3)

<sup>(5)</sup> Provided by PA Insurance Department.



#### **Estimation of Prospective Loss Rate**

(1)	(2)	(3)	(4)	(5)
\ <i>\</i>	\ /	<b>X-7</b>	<b>\</b> /	\ · /

Calendar or Fiscal Year	Indicated Ultimate	Ultimate Trended to 2013/14	Tanks-Installed	Loss per Tank
1/1/02 - 6/30/02	0	0	86	0
7/1/02 - 6/30/03	80,735	111,756	461	242
7/1/03 - 6/30/04	150,218	201,880	334	604
7/1/04 - 6/30/05	0	0	314	0
7/1/05 - 6/30/06	0	0	261	0
7/1/06 - 6/30/07	0	0	220	0
7/1/07 - 6/30/08	0	0	232	0
7/1/08 - 6/30/09	0	0	275	0
7/1/09 - 6/30/10	91,758	103,274	241	429
7/1/10 - 6/30/11	977,706	1,068,366	242	4,415
7/1/11 - 6/30/12	366,147	388,446	292	1,330
7/1/12 - 6/30/13	507,408	522,630	209	2,501
Total	2,173,972	2,396,352	3,167	757
Control	2,173,972		3,167	
		A	Average: 7/1/2002 - 6/30/2013	778
			Average: 7/1/2004 - 6/30/2013	911
		Prior Selec	cted Loss Rate (2012 Review)	950
			Selected Loss Rate	950

<sup>(2)</sup> From Appendix Exhibit 4-2.

<sup>(3)</sup> Trended at 3.0% per annum.

<sup>(4)</sup> From Appendix Exhibit 6.

<sup>(5)</sup> Equals (3) divided by (4).



Control

#### Pennsylvania Insurance Department / Bureau of Special Funds Tank Installers Indemnification Program

#### **Estimation of Ultimate TIIP Losses**

(1)	(2)	(3)	(4)	(5)	(6) (2) + (1-(3))*(4)x (117)	(7) see note
Calendar or Fiscal Year	Reported Loss at 6/30/13	xpected % Reported at 6/30/2013	Revenue	Loss Development Estimate	BF Loss Estimates	Indicated Ultimate
1/1/02 - 6/30/02	0	86%	208,026	0	23,489	0
7/1/02 - 6/30/03	80,735	85%	348,561	94,843	123,771	80,735
7/1/03 - 6/30/04	125,000	83%	325,583	150,218	170,366	150,218
7/1/04 - 6/30/05	0	81%	320,096	0	50,097	0
7/1/05 - 6/30/06	0	79%	310,424	0	54,272	0
7/1/06 - 6/30/07	0	76%	300,471	0	60,497	0
7/1/07 - 6/30/08	0	71%	299,774	0	71,400	0
7/1/08 - 6/30/09	0	67%	327,028	0	88,291	0
7/1/09 - 6/30/10	50,000	64%	286,278	77,544	134,400	91,758
7/1/10 - 6/30/11	881,413	60%	290,385	1,467,857	977,706	977,706
7/1/11 - 6/30/12	262,500	56%	286,120	465,794	366,147	366,147
7/1/12 - 6/30/13	375,000	42%	273,360	900,536	507,408	507,408
Total	1,774,648		3,576,106	3,156,792	2,627,843	2,173,972

3,576,106

1,774,648

<sup>(2)</sup> From Appendix Exhibit 5.

<sup>(3)</sup> Per USTIF loss development factors.

<sup>(4)</sup> From Appendix Exhibit 6.

<sup>(5)</sup> Equals (2) divided by (3).

<sup>(6)</sup> Assumes a 17% expense to revenue ratio based on the assumptions in the USTIF analysis (includes a provision for ULAE).

<sup>(7)</sup> Equals (2) if there are no open or appealed cases and equals (6) for 2010-2012. Otherwise, equals weighted average of (5) and (6).



Summary of TIIP Data as of June 30, 2013

(1)	(2)	(3)	(4)	(5)	(6)	(7)		
		Number of Claims by Type						
Calendar or Fiscal Year	Open	Appealed	Closed or Withdrawn	Total	Paid ALAE Expense Amounts	Reported Loss		
1/1/02 - 6/30/02	-	-	-	-	-	-		
7/1/02 - 6/30/03	-	-	5	5	54,247	80,735		
7/1/03 - 6/30/04	1	-	3	4	26,471	125,000		
7/1/04 - 6/30/05	-	-	-	-	-	-		
7/1/05 - 6/30/06	-	-	-	-	-	-		
7/1/06 - 6/30/07	-	-	2	2	-	-		
7/1/07 - 6/30/08	-	-	1	1	-	-		
7/1/08 - 6/30/09	-	-	-	-	-	-		
7/1/09 - 6/30/10	1	1	-	2	-	50,000		
7/1/10 - 6/30/11	1	-	2	3	97,061	881,413		
7/1/11 - 6/30/12	2	-	4	6	136,124	262,500		
7/1/12 - 6/30/13	2	-	1	3	19,870	375,000		
Total	7	1	18	26	333,773	1,774,648		
Control	7	1	18	26	333,773	1,774,648		

<sup>(2) - (4)</sup> Based on client data.

<sup>(5)</sup> Sum of (2) through (4).

<sup>(6) &</sup>amp; (7) Based on client data.



#### **Exposure Summary - By Period**

(1)	(2)	(3)	(4)	(5)
		Activities		

Calendar or Fiscal Year	Tanks-Removed or Closed	Tanks-Major Modifications	Tanks-Installed	Total Fee Revenue
1/1/02 - 6/30/02	239	99	86	208,026
7/1/02 - 6/30/03	783	559	461	348,561
7/1/03 - 6/30/04	973	561	334	325,583
7/1/04 - 6/30/05	817	681	314	320,096
7/1/05 - 6/30/06	646	569	261	310,424
7/1/06 - 6/30/07	513	476	220	300,471
7/1/07 - 6/30/08	522	489	232	299,774
7/1/08 - 6/30/09	580	822	275	327,028
7/1/09 - 6/30/10	475	725	241	286,278
7/1/10 - 6/30/11	529	907	242	290,385
7/1/11 - 6/30/12	418	885	292	286,120
7/1/12 - 6/30/13	364	729	209	273,360
Total	6,859	7,502	3,167	3,576,106
(6a) Indication #1 for 7/1/13 - 6/30/14	384	1,008	249	
(6b) Indication #2 for 7/1/13 - 6/30/14	341	805	230	
(6c) Average for 7/1/07 - 6/30/13	481	760	249	
(6d) Average for 7/1/09 - 6/30/13	447	812	246	
(7) Selected for 7/1/13 - 6/30/14	450	825	260	

<sup>(2) - (5)</sup> Based on client data.

<sup>(6</sup>a) Based on Linear Regression for 2006 - 2012.

<sup>(6</sup>b) Based on Linear Regression for 2009 - 2012.

<sup>(6</sup>c) and (6d) Simple Averages

<sup>(7)</sup> Selected based on actuarial judgment and discussions with the client.